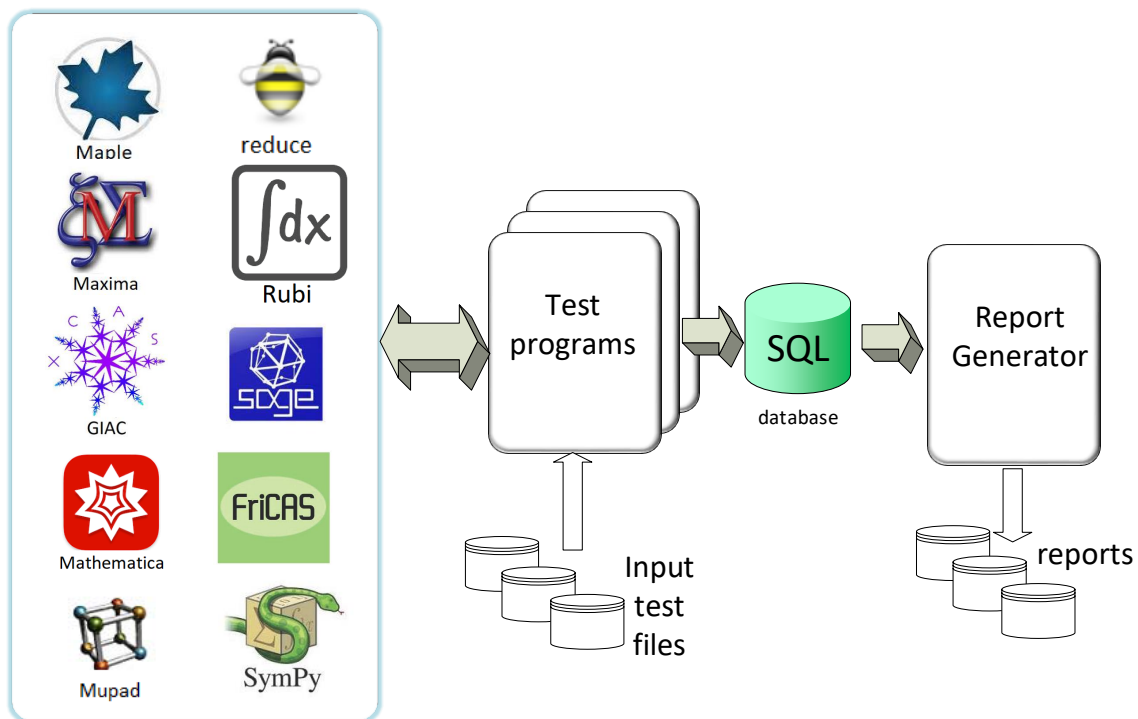


Computer Algebra Independent Integration Tests

Summer 2024 edition



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CHAPTER 1

INTRODUCTION

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This report gives the result of running the computer algebra independent integration problems.

The listing of the problems used by this report are

1. MIT_bee_integration_problems.zip
2. handbook_integration_problems.zip
3. CAS_integration_tests_2023_Mathematica_format.m
4. CAS_integration_tests_2023_Maple_and_Mupad_format.zip
5. CAS_integration_tests_2023_SAGE_format.zip
6. CAS_integration_tests_2023_Sympy_format.zip

The Mathematica/Rubi format file above can be read into Mathematica using the following commands

```
SetDirectory[NotebookDirectory[]] (*where the above .m file was save*)  
lst=First@ReadList["CAS_integration_tests_2023_Mathematica_format.m",Expression];  
Length[lst]
```

`lst[[1]]` will be the first integrand,var and `lst[[2]]` will be the second one and so on.

The Rubi test suite files were downloaded from rulebasedintegration.org.

The current number of problems in this test suite is [106812].

1.1 Listing of CAS systems tested

The following are the CAS systems tested:

1. Mathematica 14 (January 9, 2024) on windows 10 pro.
2. Rubi 4.17.3 (Sept 25, 2023) on Mathematica 14 on windows 10m pro.
3. Maple 2024 (March 1, 2024) on windows 10 pro.
4. Maxima 5.47 (June 1, 2023) using Lisp SBCL 2.4.0 on Linux Manjaro 23.1.2 KDE via sagemath 10.3.

5. FriCAS 1.3.10 built with sbcl 2.3.11 (January 10, 2024) on Linux Manjaro 23.1.2 KDE via sagemath 10.3.
6. Giac/Xcas 1.9.0-99 on Linux via sagemath 10.3.
7. Sympy 1.12 using Python 3.11.6 (Nov 14 2023, 09:36:21) [GCC 13.2.1 20230801] on Linux Manjaro 23.1.2 KDE.
8. Mupad using Matlab 2021a with Symbolic Math Toolbox Version 8.7 on windows 10.
9. Reduce CSL rev 6687 (January 9, 2024) on Linux Manjaro 23.1.2 KDE.

Maxima and Fricas and Giac are called using Sagemath. This was done using Sagemath `integrate` command by changing the name of the algorithm to use the different CAS systems.

Sympy was run directly in Python not via sagemath.

Reduce was called directly.

1.2 Results

Important note: A number of problems in this test suite have no antiderivative in closed form. This means the antiderivative of these integrals can not be expressed in terms of elementary, special functions or `Hypergeometric2F1` functions.

If a CAS returns the above integral unevaluated within the time limit, then the result is counted as passed and assigned an A grade.

However, if CAS times out, then it is assigned an F grade even if the integral is not integrable, as this implies CAS could not determine that the integral is not integrable in the time limit.

If a CAS returns an antiderivative to such an integral, it is assigned an A grade automatically and this special result is listed in the introduction section of each individual test report to make it easy to identify as this can be important result to investigate.

The results given in in the table below reflects the above.

Table 1.1: Percentage solved for each CAS

System	solved	Failed
Mathematica	% 97.367 (104000)	% 2.633 (2812)
Rubi	% 93.136 (99480)	% 6.864 (7332)
Maple	% 83.761 (89467)	% 16.239 (17345)
Fricas	% 77.213 (82473)	% 22.787 (24339)
Giac	% 57.511 (61429)	% 42.489 (45383)
Reduce	% 54.34 (58042)	% 45.66 (48770)
Mupad	% 52.841 (56440)	% 47.159 (50372)
Maxima	% 52.537 (56116)	% 47.463 (50696)
Sympy	% 42.166 (45038)	% 57.834 (61774)

The table below gives additional break down of the grading of quality of the antiderivatives generated by each CAS. The grading is given using the letters A,B,C and F with A being the best quality. The grading is accomplished by comparing the antiderivative generated with the optimal antiderivatives included in the test suite. The following table describes the meaning of these grades.

Table 1.2: Description of grading applied to integration result

grade	description
A	Integral was solved and antiderivative is optimal in quality and leaf size.
B	Integral was solved and antiderivative is optimal in quality but leaf size is larger than twice the optimal antiderivatives leaf size.
C	Integral was solved and antiderivative is non-optimal in quality. This can be due to one or more of the following reasons <ol style="list-style-type: none"> 1. antiderivative contains a hypergeometric function and the optimal antiderivative does not. 2. antiderivative contains a special function and the optimal antiderivative does not. 3. antiderivative contains the imaginary unit and the optimal antiderivative does not.
F	Integral was not solved. Either the integral was returned unevaluated within the time limit, or it timed out, or CAS hanged or crashed or an exception was raised.

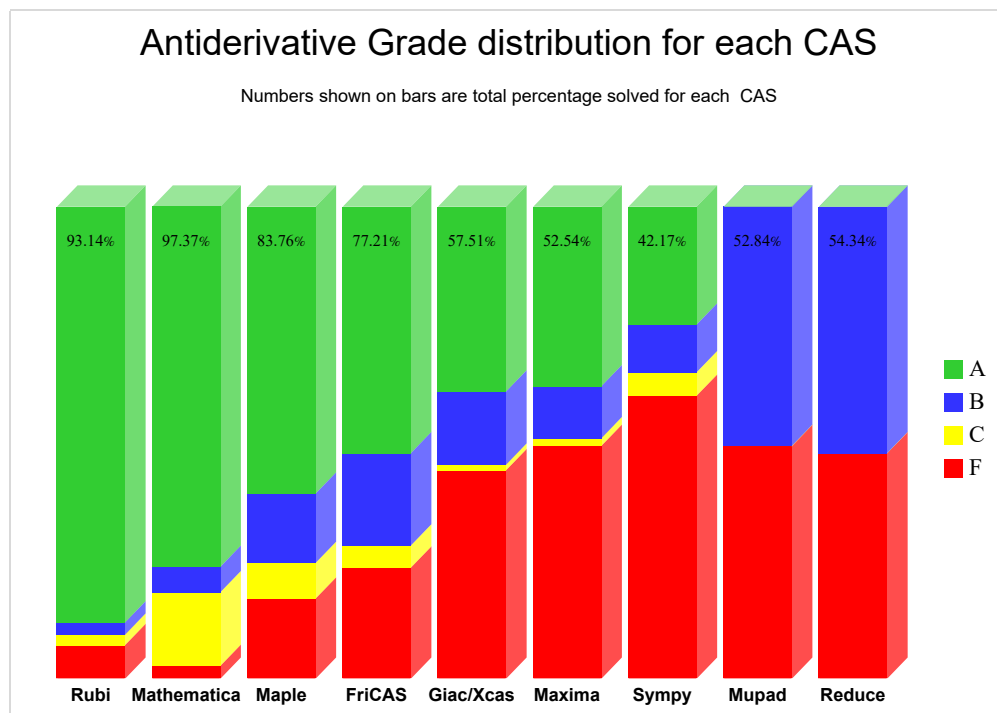
Grading is implemented for all CAS systems in this version except for CAS Mupad where a grade of B is automatically assigned as a place holder for all integrals it completes on time.

The following table summarizes the grading results.

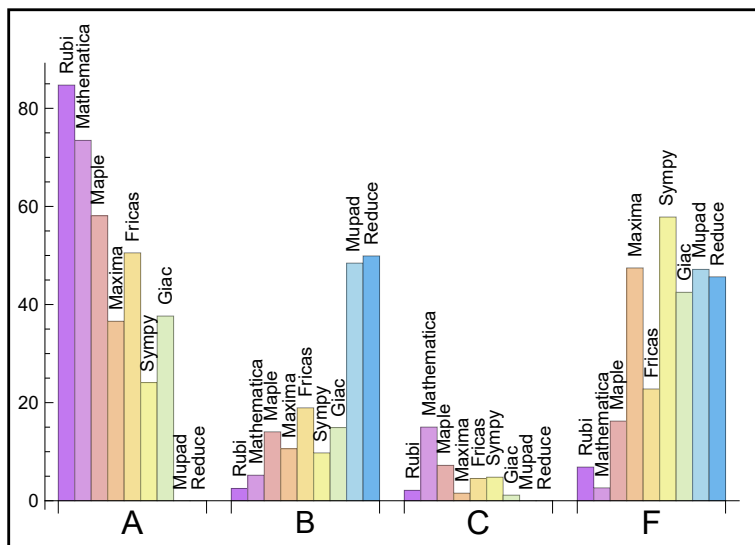
Table 1.3: Antiderivative Grade distribution for each CAS

System	% A grade	% B grade	% C grade	% F grade
Rubi	84.74	2.5	2.12	6.86
Mathematica	73.46	5.21	15.02	2.63
Maple	58.11	14.06	7.21	16.24
Fricas	50.54	18.94	4.54	22.79
Giac	37.65	14.92	1.14	42.49
Maxima	36.59	10.61	1.54	47.46
Sympy	24.09	9.76	4.8	57.83
Reduce	N/A	49.91	N/A	45.66
Mupad	N/A	48.44	N/A	47.16

The following Bar chart is an illustration of the data in the above table.



The figure below compares the CAS systems for each grade level.



1.3 Time and leaf size Performance

The table below summarizes the performance of each CAS system in terms of time used and leaf size of results.

Mean size is the average leaf size produced by the CAS (before any normalization). The Normalized mean is relative to the mean size of the optimal anti-derivative given in the input files.

For example, if CAS has **Normalized mean** of 3, then the mean size of its leaf size is 3 times as large as the mean size of the optimal leaf size.

Median size is value of leaf size where half the values are larger than this and half are smaller (before any normalization). i.e. The Middle value.

Similarly the **Normalized median** is relative to the median leaf size of the optimal.

For example, if a CAS has Normalized median of 1.2, then its median is 1.2 as large as the median leaf size of the optimal.

Table 1.4: Time and leaf size performance for each CAS

System	Mean time (sec)	Mean size	Normalized mean	Median size	Normalized median
Maxima	0.25	774.72	238.38	69.	1.1
Rubi	0.67	165.33	1.4	106.	1.
Giac	0.9	594.73	43.61	78.	1.15
Fricas	0.94	1115.97	7.02	108.	1.37
Reduce	1.51	457.15	9.73	76.	1.31
Mathematica	2.5	369.49	2.4	85.	0.98
Maple	5.16	30161.5	336.1	89.	1.
Sympy	5.74	405.38	21.33	51.	1.12
Mupad	7.51	1442.7	10.3	66.	1.05

1.4 Performance based on number of rules Rubi used

This section shows how each CAS performed based on the number of rules Rubi needed to solve the same integral. One diagram is given for each CAS.

On the y axis is the percentage solved which Rubi itself needed the number of rules given the x axis. These plots show that as more rules are needed then most CAS system percentage of solving decreases which indicates the integral is becoming more complicated to solve.

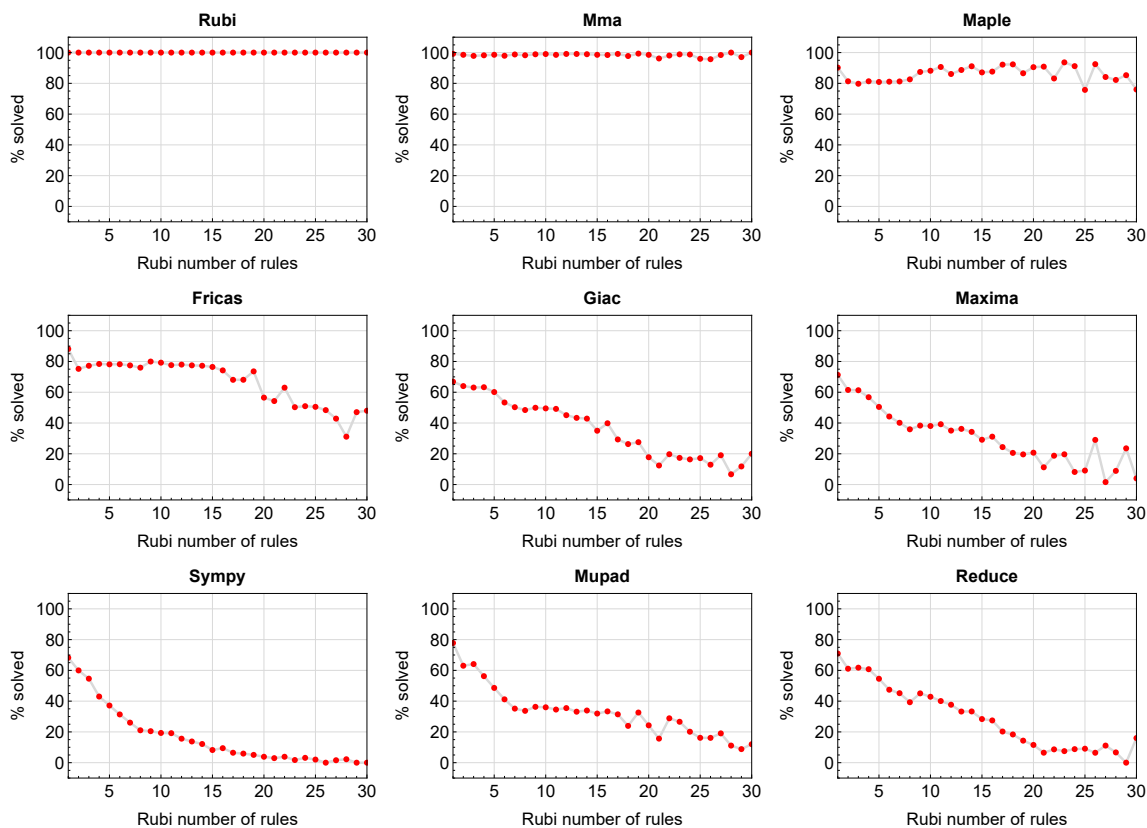


Figure 1.1: Solving statistics per number of Rubi rules used

1.5 Performance based on number of steps Rubi used

This section shows how each CAS performed based on the number of steps Rubi needed to solve the same integral. Note that the number of steps Rubi needed can be much higher than the number of rules, as the same rule could be used more than once.

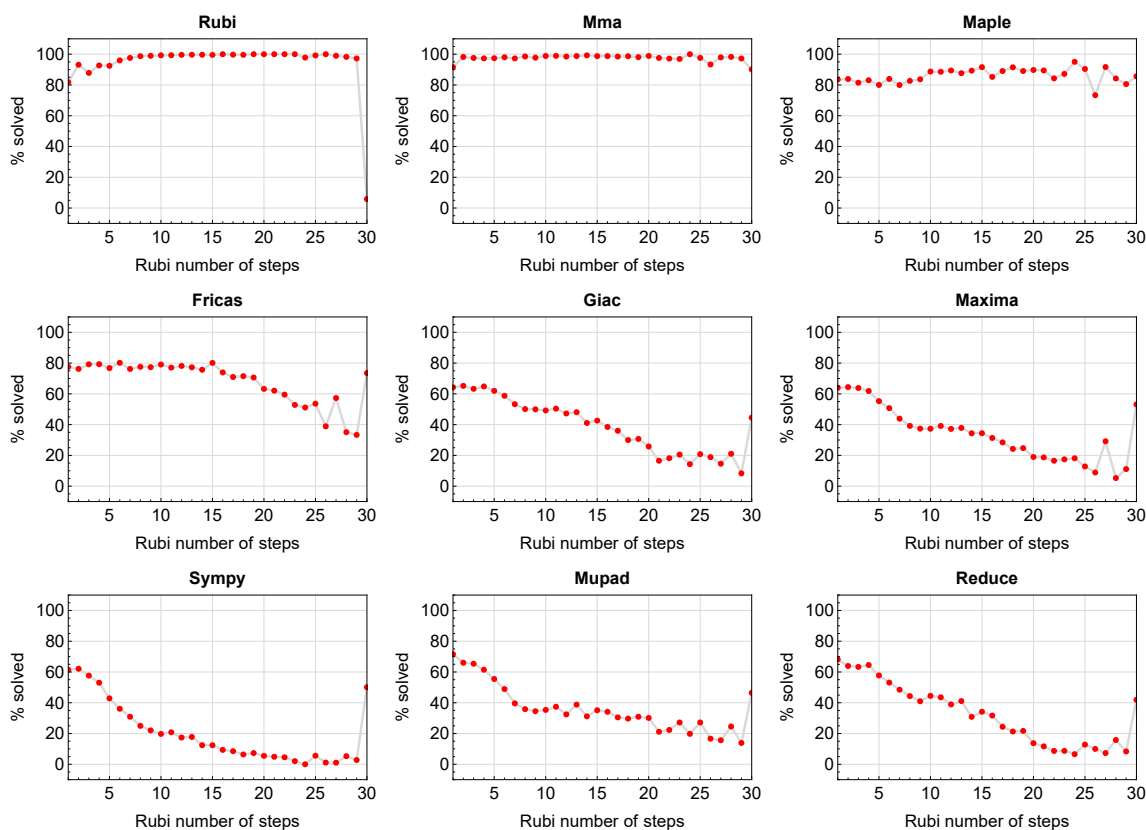


Figure 1.2: Solving statistics per number of Rubi steps used

The above diagram show that the percentage of solved intergals decreases for most CAS systems as the number of steps increases. As expected, for integrals that required less steps by Rubi, CAS systems had more success which indicates the integral was not as hard to solve. As Rubi needed more steps to solve the integral, the solved percentage decreased for most CAS systems which indicates the integral is becoming harder to solve.

1.6 Solved integrals histogram based on leaf size of result

The following shows the distribution of solved integrals for each CAS system based on leaf size of the antiderivatives produced by each CAS. It shows that most integrals solved produced leaf size less than about 100 to 150. The bin size used is 40.

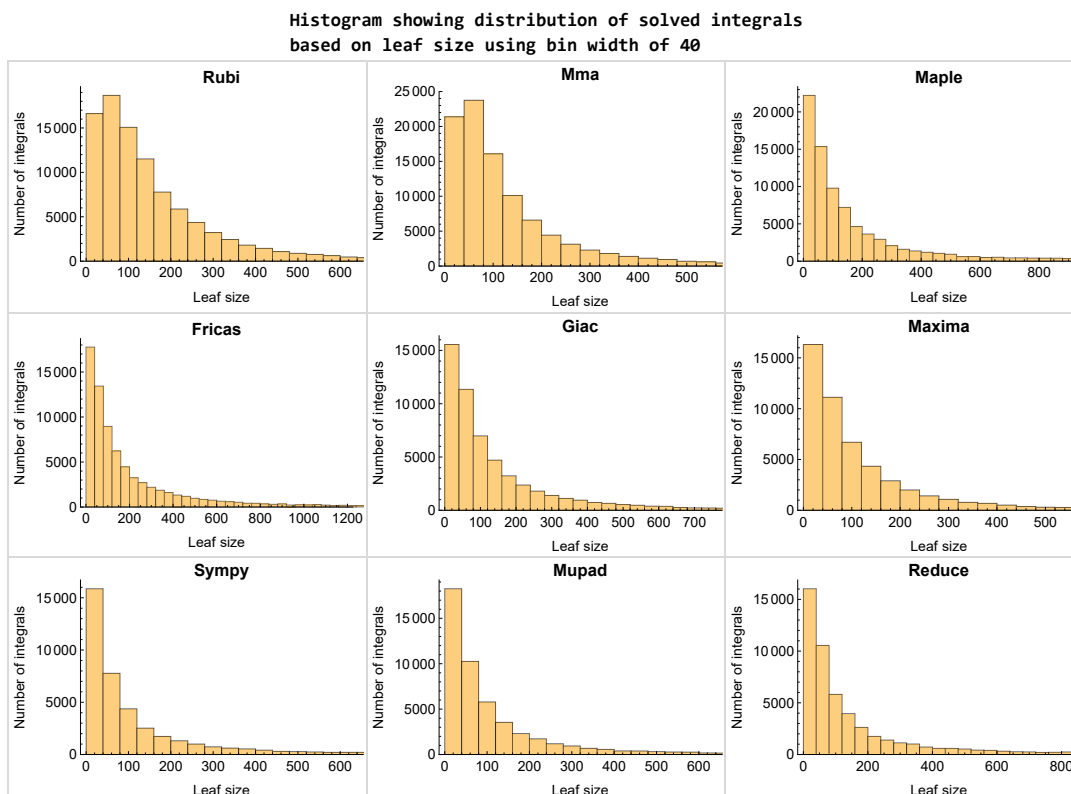


Figure 1.3: Solved integrals based on leaf size distribution

1.7 Solved integrals histogram based on CPU time used

The following shows the distribution of solved integrals for each CAS system based on CPU time used in seconds. The bin size used is 0.1 second.

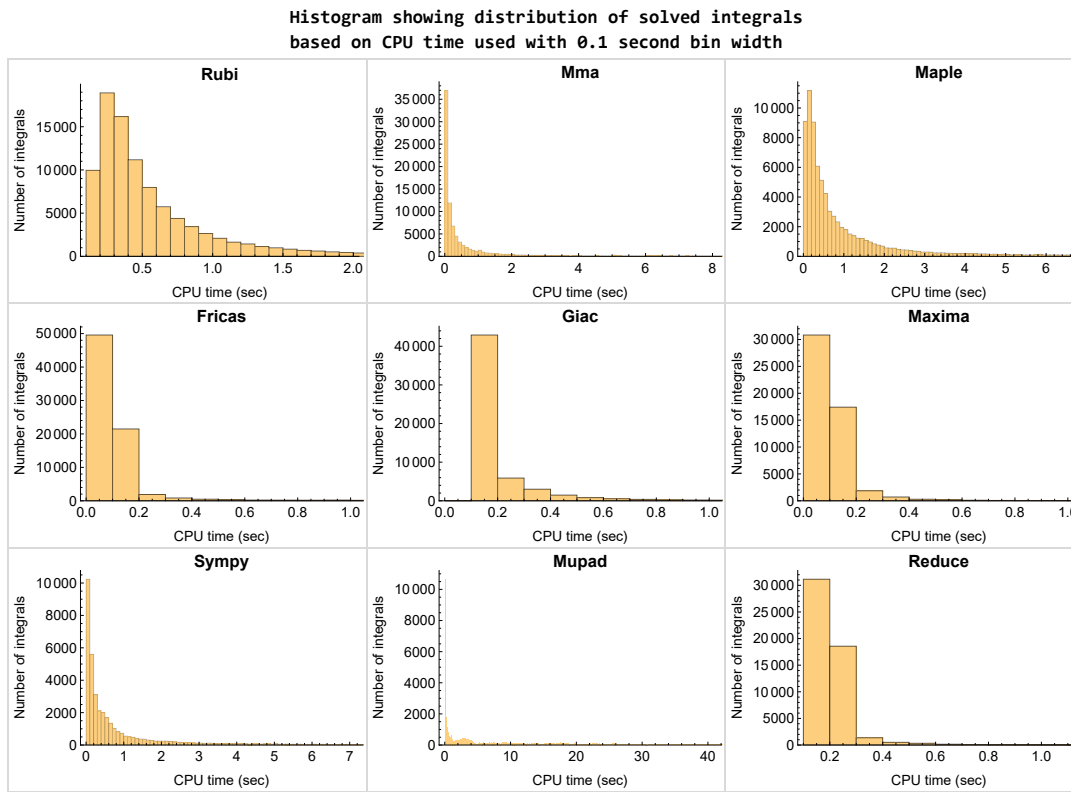


Figure 1.4: Solved integrals histogram based on CPU time used

1.8 Leaf size vs. CPU time used

The following shows the relation between the CPU time used to solve an integral and the leaf size of the antiderivative.

The result for Fricas, Maxima and Giac is shifted more to the right than the other CAS system due to the use of sagemath to call them, which causes an initial slight delay in the timing to start the integration due to overhead of starting a new process each time. This should also be taken into account when looking at the timing of these three CAS systems. Direct calls not using sagemath would result in faster timings, but current implementation uses sagemath as this makes testing much easier to do.

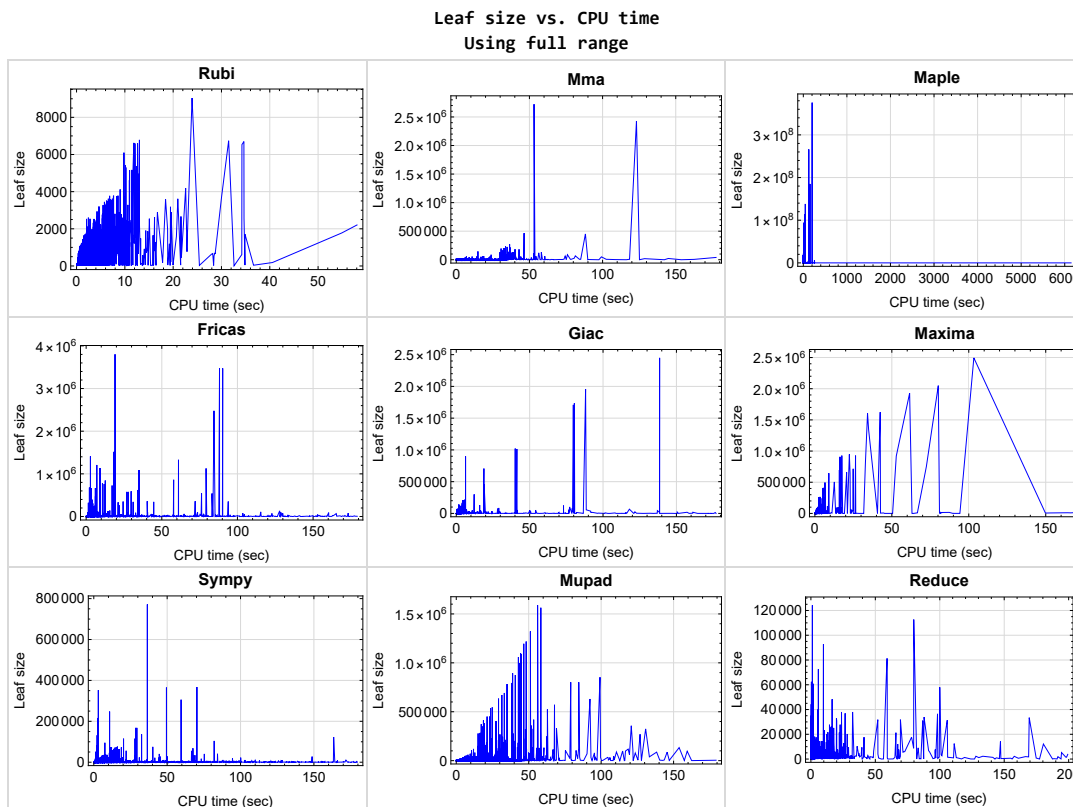


Figure 1.5: Leaf size vs. CPU time. Full range

1.9 Performance per integrand type

The following are the different integrand types the test suite contains.

1. Independent tests.
2. Algebraic Binomial problems (products involving powers of binomials and monomials).
3. Algebraic Trinomial problems (products involving powers of trinomials, binomials and monomials).
4. Miscellaneous Algebraic functions.
5. Exponentials.
6. Logarithms.
7. Trigonometric.
8. Inverse Trigonometric.
9. Hyperbolic functions.
10. Inverse Hyperbolic functions.
11. Special functions.
12. Sam Blake input files.
13. Waldek Hebisch input file.
14. MIT Bee integration.
15. Few problems from Ryzhik and Gradshteyn table of integrals handbook.

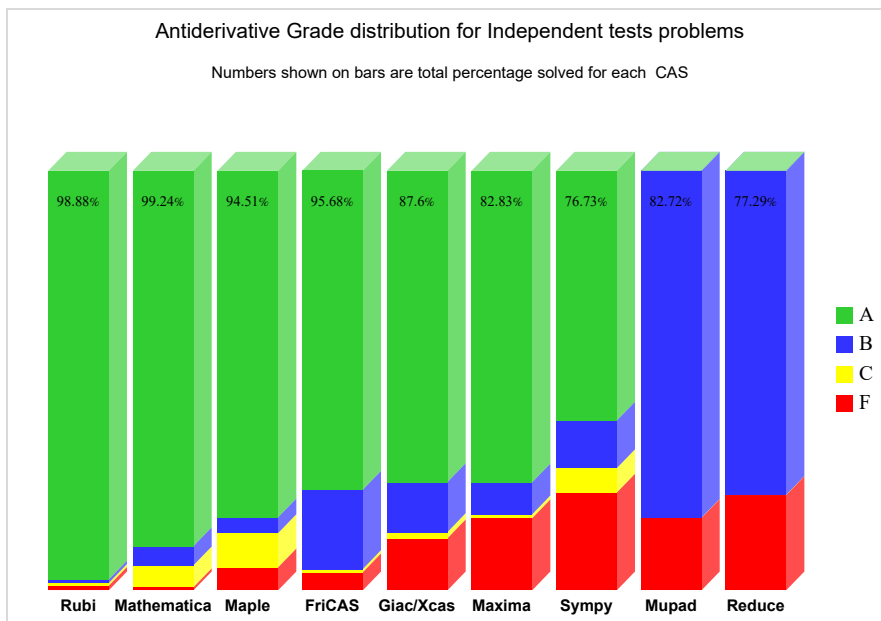
The following table gives percentage solved of each CAS per integrand type.

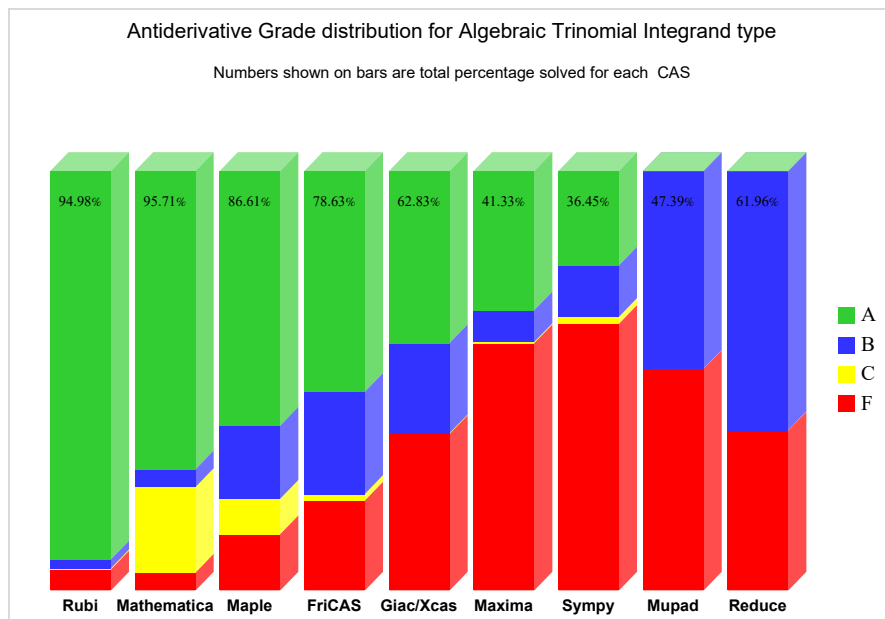
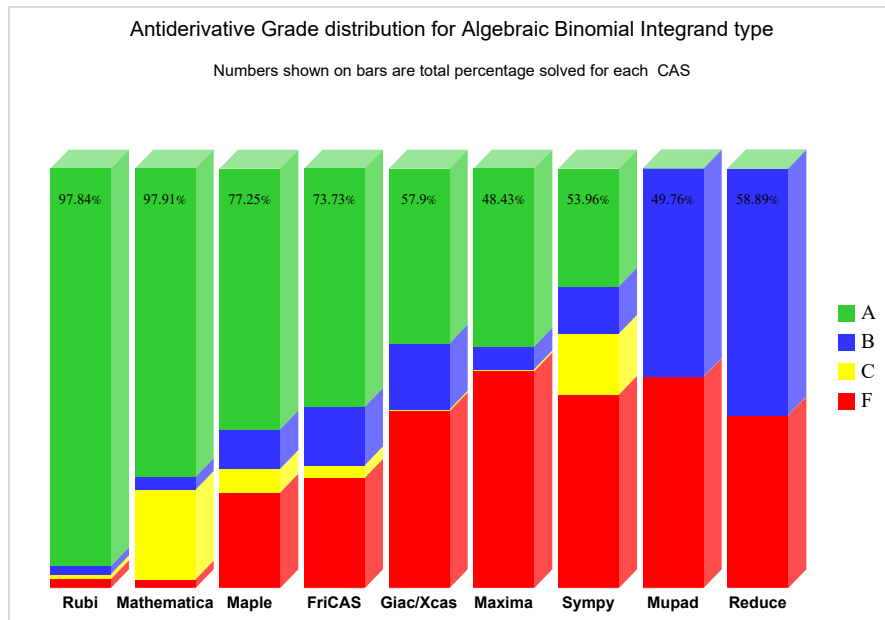
Table 1.5: Percentage solved per integrand type

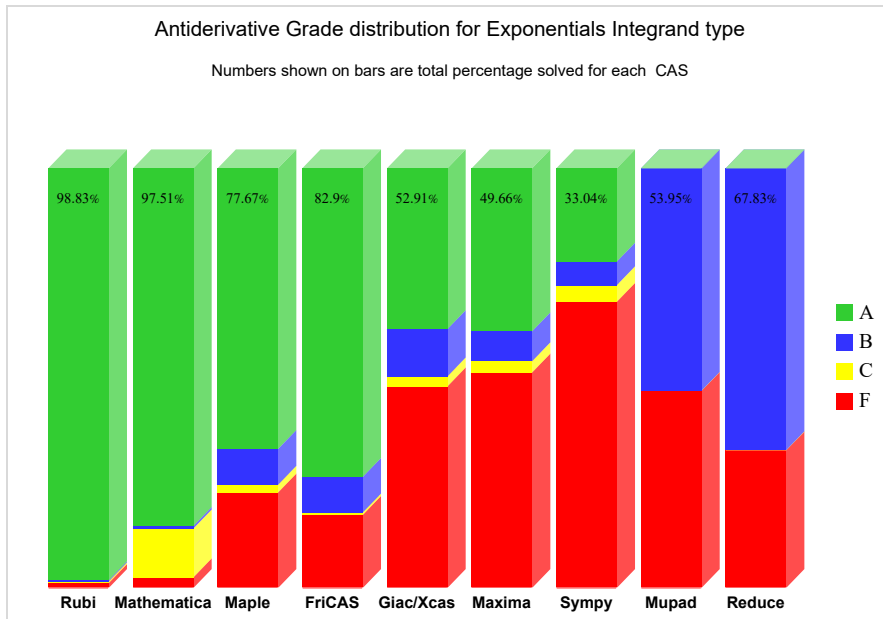
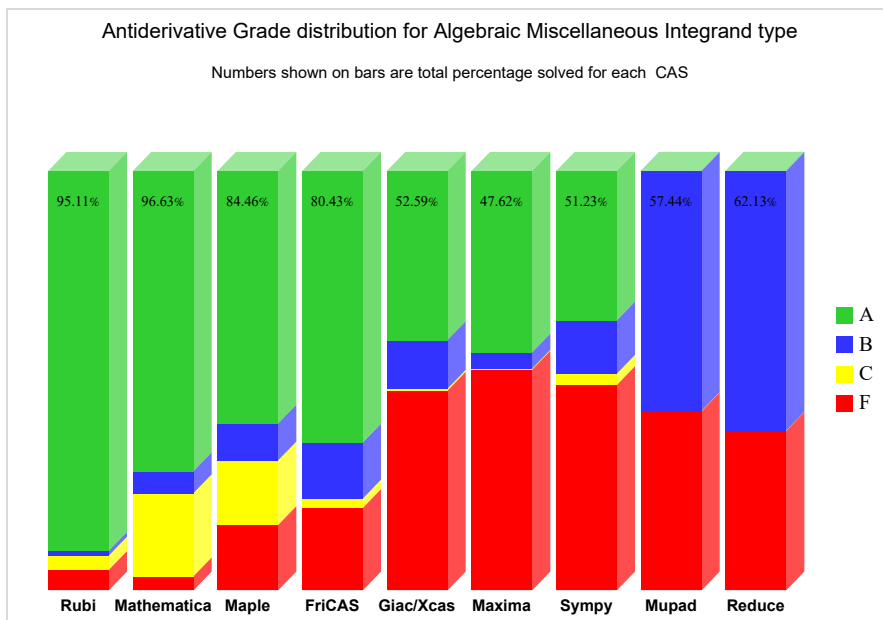
Integrand type	#	Rubi	MMa	Maple	Maxima	Fricas	Sympy	Giac	Reduce	Mupad
Independent tests	1968	98.88	99.24	94.51	82.83	95.68	76.73	87.6	77.29	82.72
Algebraic Binomial	25785	97.84	97.91	77.25	48.43	73.73	53.96	57.9	58.89	49.76
Algebraic Trinomial	13812	94.98	95.71	86.61	41.33	78.63	36.45	62.83	61.96	47.39
Algebraic Miscellaneous	2432	95.11	96.63	84.46	47.62	80.43	51.23	52.59	62.13	57.44
Exponentials	5375	98.83	97.51	77.67	49.66	82.9	33.04	52.91	67.83	53.95
Logarithms	3237	96.2	97.25	65.31	53.72	58.02	35.06	46.74	47.76	41.74
Trigonometric	23422	98.39	97.84	85.27	49.	79.55	17.16	50.54	35.58	49.76
Inverse Trigonometric	5082	99.35	98.58	89.81	35.58	46.03	37.01	48.15	39.14	35.36
Hyperbolic	5513	97.08	98.4	82.42	62.6	90.15	24.42	64.28	53.22	54.58
Inverse Hyperbolic	4349	99.63	98.92	82.69	45.5	49.9	24.88	30.35	29.8	30.83
Special functions	1738	95.51	93.1	71.17	35.5	62.6	40.85	25.2	28.19	35.67
Sam Blake files	3265	63.37	94.09	83.92	40.18	74.06	36.81	42.51	36.45	49.25
Waldek Heibisch file	10335	62.56	96.81	99.17	93.19	99.92	94.57	87.35	91.16	90.15
MIT Bee integration	321	94.7	99.38	95.95	92.52	95.95	81.93	92.21	81.93	90.03
Table of integrals	163	100.	100.	97.55	92.64	100.	88.34	100.	96.32	92.64

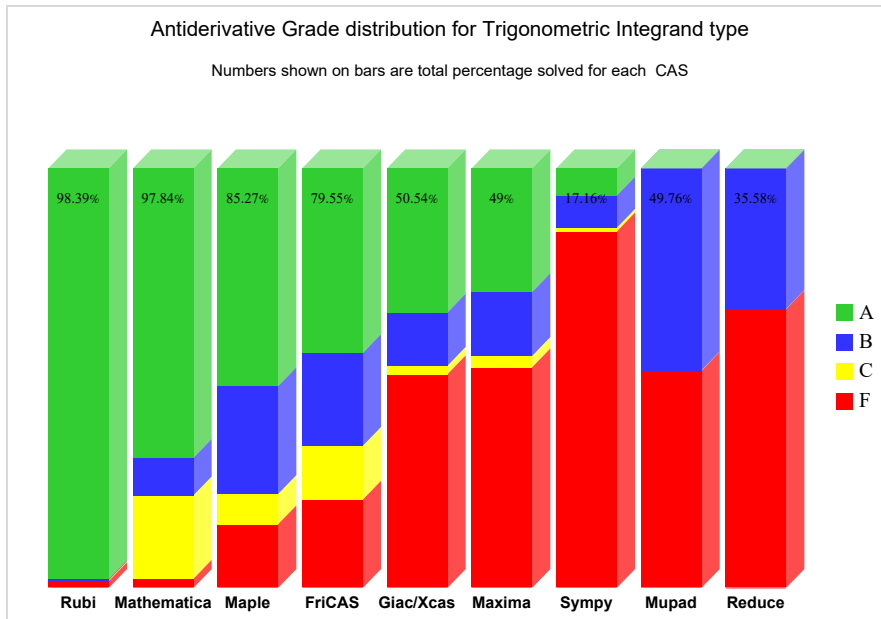
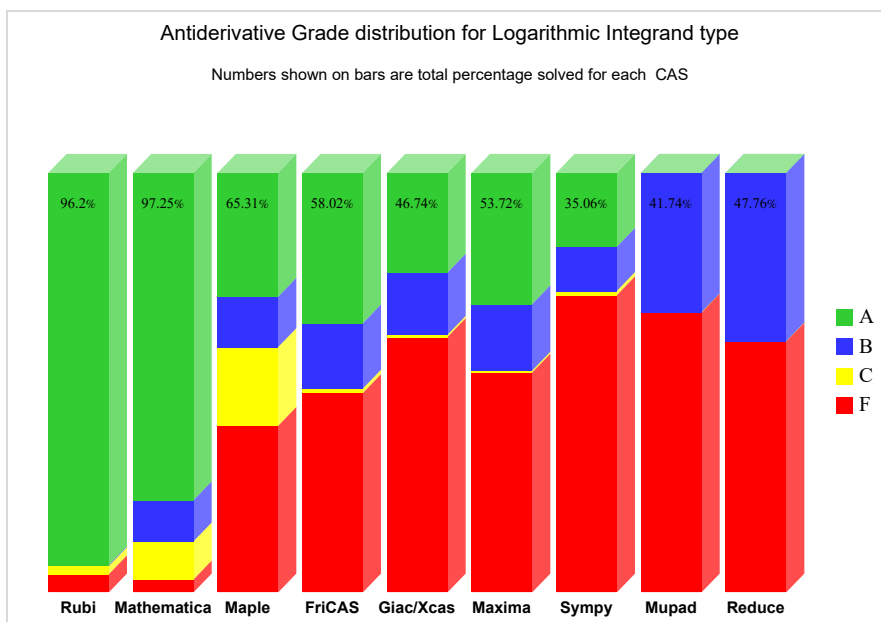
In addition to the above table, for each type of integrand listed above, 3D chart is made which shows how each CAS performed on that specific integrand type.

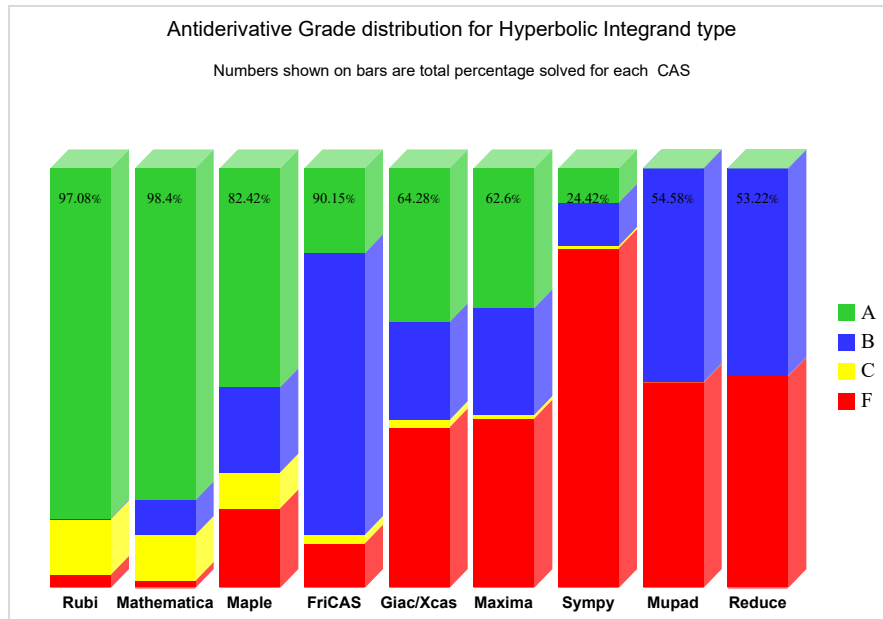
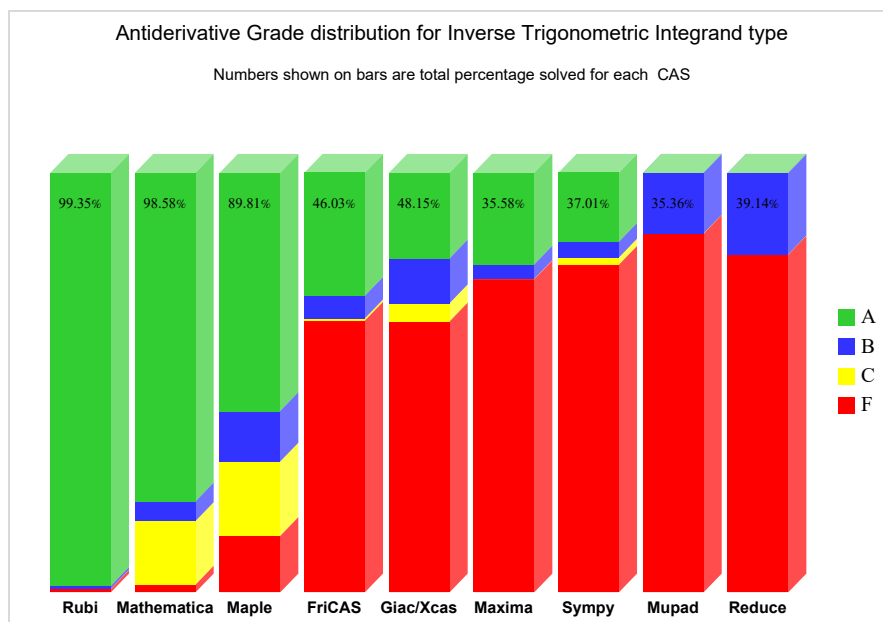
These charts and the table above can be used to show where each CAS relative strength or weakness in the area of integration.

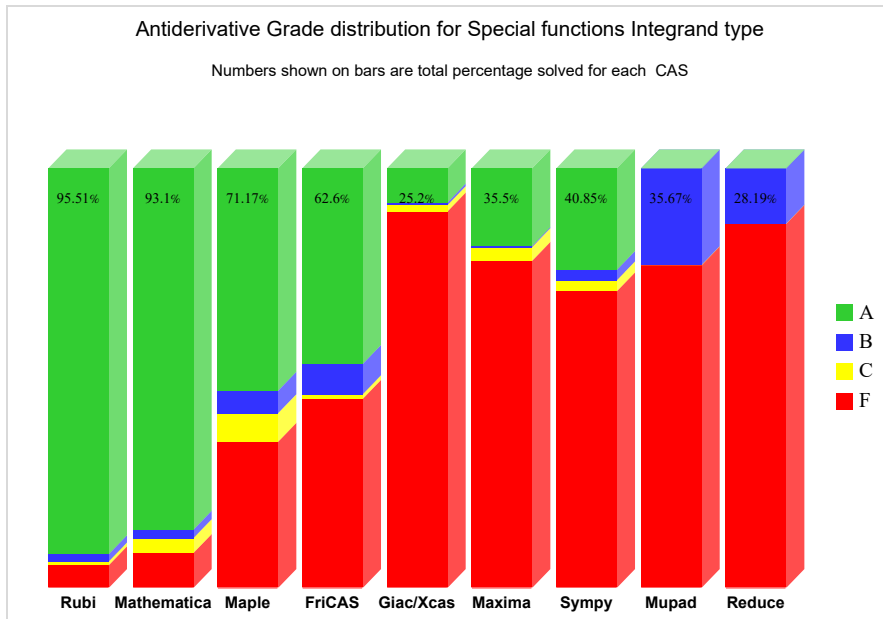
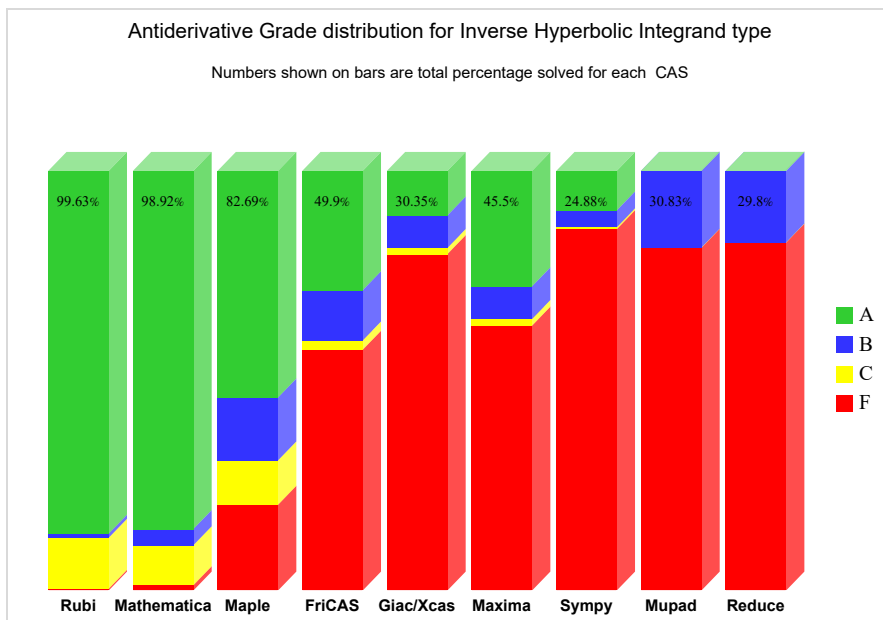


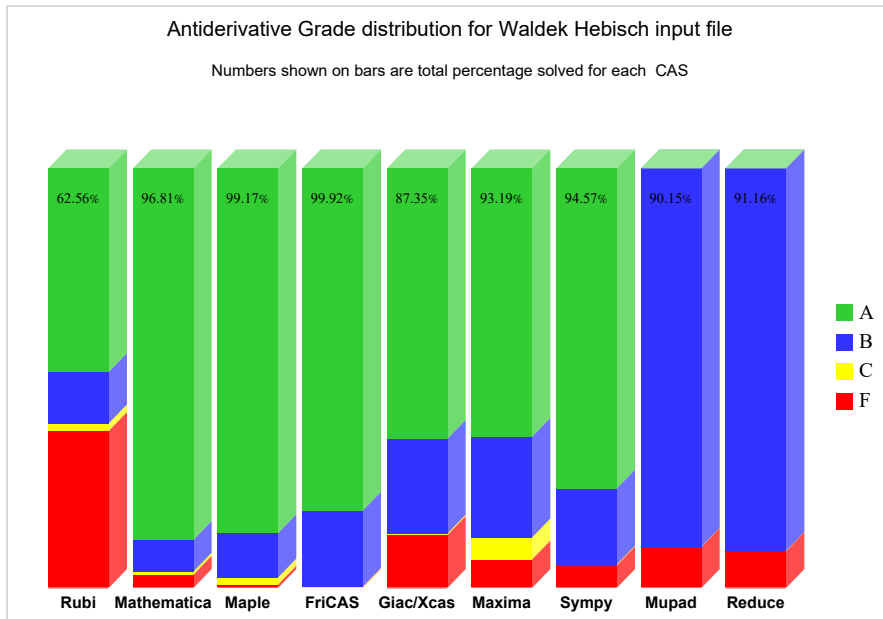
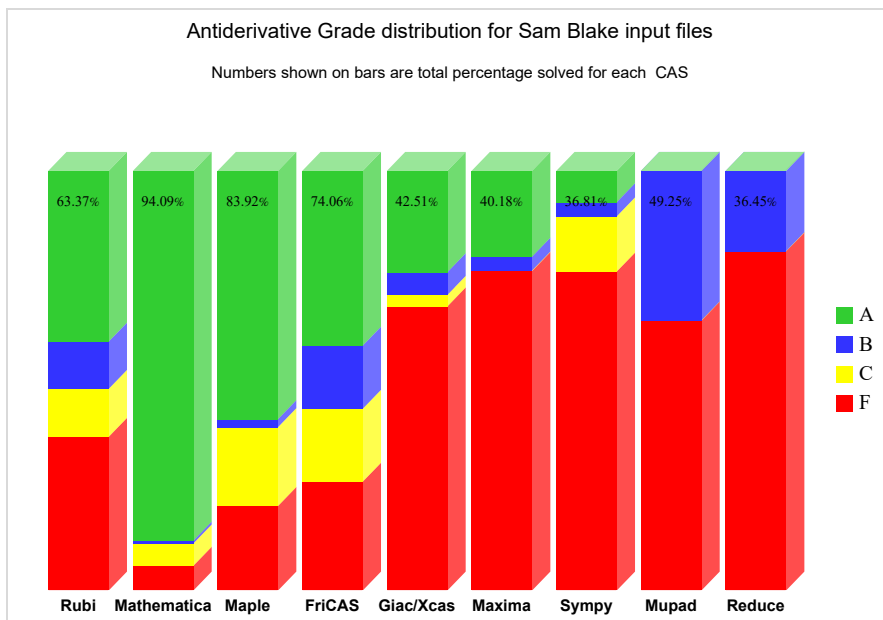


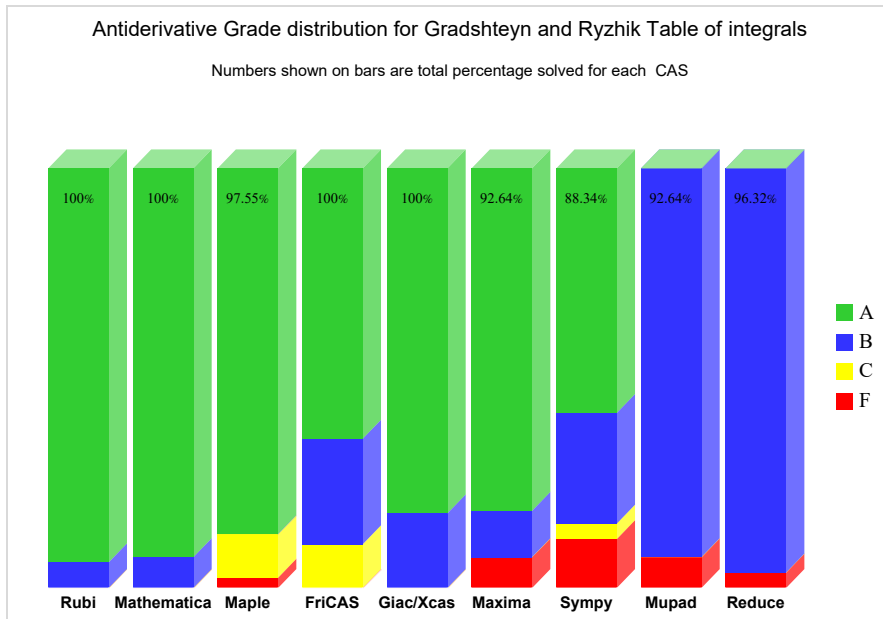
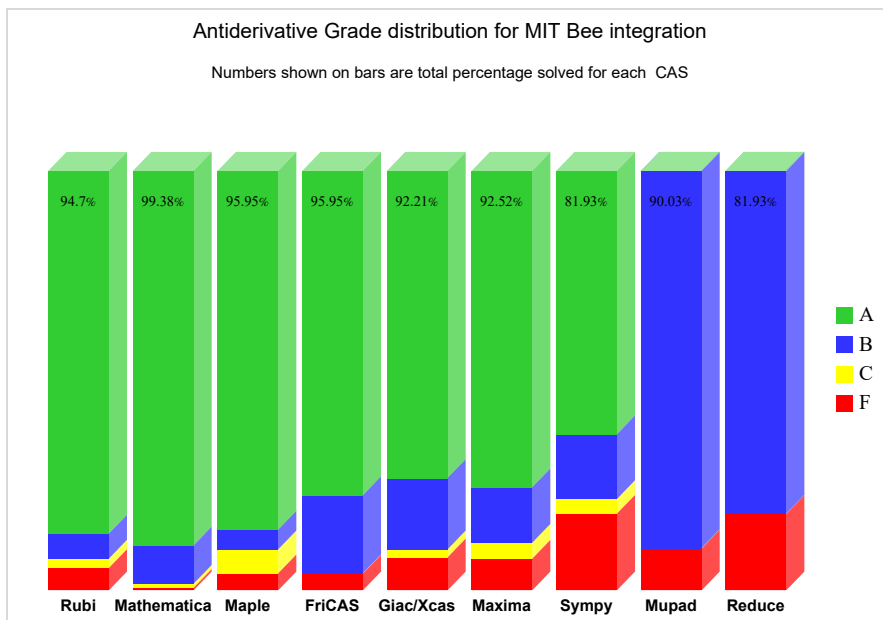












1.10 Maximum leaf size ratio for each CAS against the optimal result

The following table gives the largest ratio found in each test file, between each CAS antiderivative and the optimal antiderivative.

For each test input file, the problem with the largest ratio $\frac{\text{CAS leaf size}}{\text{Optimal leaf size}}$ is recorded with the corresponding problem number.

In each column in the table below, the first number is the maximum leaf size ratio, and the number that follows inside the parentheses is the problem number in that specific file where this maximum ratio was found. This ratio is determined only when CAS solved the the problem and also when an optimal antiderivative is known.

If it happens that a CAS was not able to solve all the integrals in the input test file, or if it was not possible to obtain leaf size for the CAS result for all the problems in the file, then a zero is used for the ratio and -1 is used for the problem number.

This makes it easier to locate the problem. In the future, a direct link will be added as well.

Table 1.6: Maximum leaf size ratio for each CAS against the optimal result

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
1	1.8 (133)	3.9 (50)	4.5 (170)	3.8 (169)	4. (45)	4789.3 (145)	4.2 (164)	0. (-1)
2	1.9 (26)	5. (26)	3.6 (17)	113.1 (21)	14.3 (13)	16.8 (5)	4.6 (2)	0. (-1)
3	1.1 (4)	1.1 (14)	2. (6)	11.1 (7)	2. (8)	1.9 (5)	1.9 (5)	0. (-1)
4	1.5 (72)	2. (11)	1.8 (11)	1.7 (11)	2.2 (20)	1.5 (69)	3.1 (67)	0. (-1)
5	6.8 (5)	14.3 (13)	11.7 (8)	29.7 (8)	5.5 (43)	4.8 (40)	5.3 (1)	0. (-1)
6	2. (225)	54.7 (278)	11.9 (280)	8.1 (280)	7.7 (280)	39.8 (123)	19.5 (141)	0. (-1)
7	1. (1)	1.4 (3)	2.2 (4)	1.9 (1)	1.4 (7)	0.8 (4)	2.3 (5)	0. (-1)
8	2.2 (3)	5.6 (7)	1.8 (3)	2.8 (3)	6.7 (9)	45.4 (9)	1.9 (3)	0. (-1)
9	2.9 (70)	5.3 (31)	4.6 (70)	6.5 (11)	5. (42)	26.4 (71)	5.8 (40)	0. (-1)
10	2.2 (112)	6.8 (316)	3.5 (323)	12.1 (328)	4.2 (341)	4789.3 (251)	15. (328)	0. (-1)
11	4. (604)	5.9 (446)	142.8 (417)	36.9 (399)	93.4 (137)	124.9 (217)	27.9 (625)	0. (-1)
12	7.7 (82)	5.4 (54)	16.4 (55)	2.7 (2)	13.4 (59)	43. (17)	6.6 (50)	0. (-1)
13	1.8 (6)	2.3 (4)	1.2 (8)	1.5 (2)	3.3 (3)	3.4 (3)	1.5 (2)	0. (-1)
14	1. (3)	1.3 (38)	2. (1)	1.7 (37)	4.5 (97)	11.7 (97)	19.3 (97)	0. (-1)
15	7.1 (798)	527.7 (115)	438.1 (115)	438.1 (115)	10.9 (185)	522.8 (115)	438.1 (115)	0. (-1)
16	1.7 (135)	10. (114)	13.5 (114)	8.6 (102)	11. (114)	36.1 (78)	6.5 (114)	0. (-1)

Continu

Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
17	5.1 (641)	23.8 (117)	27.7 (117)	32.9 (117)	429.1 (673)	36.9 (754)	34. (117)	0. (-1)
18	1.5 (196)	9. (141)	9.7 (141)	10.1 (141)	10.1 (141)	53.8 (351)	10.1 (141)	0. (-1)
19	4.1 (141)	10. (269)	15.5 (281)	7. (223)	11. (269)	84.5 (306)	12.6 (97)	0. (-1)
20	2.2 (436)	15.3 (254)	10. (411)	6.3 (3)	13.8 (142)	63. (549)	46.7 (434)	0. (-1)
21	1.5 (264)	16.5 (91)	22. (91)	21.8 (91)	21.8 (91)	76.7 (230)	25.9 (91)	0. (-1)
22	2.3 (1492)	4.9 (1487)	19.7 (1188)	22.2 (480)	19.8 (1249)	76.7 (714)	28.1 (991)	0. (-1)
23	1.8 (177)	17.5 (104)	11.4 (195)	2. (159)	40.4 (102)	9.5 (237)	17.3 (205)	0. (-1)
24	6. (102)	10.4 (104)	32.1 (16)	2.8 (130)	12.7 (14)	49.2 (130)	15.8 (27)	0. (-1)
25	1. (1)	1.6 (1)	2.5 (30)	1.9 (29)	3.2 (30)	30.6 (30)	5.9 (30)	0. (-1)
26	1.5 (181)	1.9 (126)	13.1 (126)	4. (174)	9.7 (100)	143.6 (174)	19.9 (174)	0. (-1)
27	1.6 (12)	9.3 (88)	24.4 (82)	1.5 (22)	10.1 (81)	5.1 (4)	37. (75)	0. (-1)
28	1.6 (37)	36.4 (38)	5. (9)	1.7 (16)	2.4 (3)	0. (-1)	1.9 (16)	0. (-1)
29	1.3 (106)	3.8 (27)	1.5 (30)	4.8 (30)	4.1 (29)	30.6 (29)	2.9 (53)	0. (-1)
30	8.2 (713)	6.9 (712)	5.3 (196)	10. (196)	10. (196)	55.3 (538)	8. (444)	0. (-1)
31	1547. (517)	655. (517)	18. (357)	6.5 (302)	16.1 (42)	10.2 (24)	7.5 (302)	0. (-1)
32	15.5 (1368)	17.9 (996)	8.3 (1408)	8. (491)	16.3 (823)	46.9 (879)	13.9 (1260)	0. (-1)
33	5.1 (307)	8.3 (569)	22.5 (50)	2.2 (364)	19.1 (373)	4.5 (234)	19.9 (336)	0. (-1)
34	3.1 (236)	3.2 (260)	10.4 (15)	2. (15)	7. (15)	53. (15)	13.8 (15)	0. (-1)
35	3.8 (97)	3.8 (97)	2.3 (73)	3.8 (97)	3.8 (97)	43.7 (107)	3.9 (73)	0. (-1)
36	1.6 (4)	1.1 (104)	6.5 (252)	3.4 (240)	11.7 (126)	48.7 (11)	9.3 (252)	0. (-1)
37	3.2 (45)	3.7 (24)	2.2 (52)	1.9 (57)	10.8 (8)	1.7 (4)	4.8 (8)	0. (-1)
38	2.3 (25)	6.3 (8)	12.2 (13)	0. (-1)	0. (-1)	0. (-1)	7.2 (4)	0. (-1)
39	1.7 (8)	2. (7)	1.5 (14)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
40	1.2 (30)	284.1 (30)	1.4 (35)	1.6 (24)	4.7 (26)	20.1 (30)	1.1 (9)	0. (-1)
41	1.5 (5)	1.9 (8)	3. (22)	3.8 (8)	2.5 (32)	20.1 (37)	3.2 (8)	0. (-1)
42	2. (35)	4.6 (36)	4.1 (151)	2.9 (95)	3754.9 (4)	35.5 (163)	3.1 (163)	0. (-1)
43	1.2 (447)	6.8 (86)	6.8 (437)	4.7 (96)	5.6 (86)	40.5 (444)	8.4 (437)	0. (-1)
44	2.4 (307)	2.7 (34)	3. (258)	4.1 (402)	3.5 (103)	23. (687)	5.3 (193)	0. (-1)
45	15.7 (204)	4.1 (245)	2.1 (233)	4.1 (426)	3.5 (69)	12.2 (499)	3.4 (496)	0. (-1)
46	1.5 (520)	6. (55)	7.5 (511)	6.1 (45)	60.2 (569)	84.8 (163)	11.5 (169)	0. (-1)
47	8.4 (604)	10. (448)	13.7 (447)	13.2 (176)	11.3 (447)	146.8 (156)	11.3 (447)	0. (-1)
48	1.3 (110)	13.4 (112)	15.7 (129)	5.9 (42)	38.1 (122)	41.4 (30)	28.5 (12)	0. (-1)
49	1.7 (20)	1.7 (5)	1.2 (14)	2.2 (13)	2.7 (13)	2.2 (26)	9.6 (66)	0. (-1)
50	1.9 (182)	13.7 (5)	14.2 (51)	4.1 (80)	5.3 (83)	12.9 (71)	1.7 (35)	0. (-1)
51	1.5 (51)	6.2 (78)	2.2 (106)	2.3 (91)	11.5 (27)	7.8 (83)	2.4 (21)	0. (-1)
52	1.4 (58)	48.5 (142)	6.7 (127)	2.1 (27)	15. (45)	38. (73)	6.1 (75)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
53	1.1 (6)	3.4 (5)	0. (-1)	0. (-1)	1.9 (1)	0. (-1)	0. (-1)	0. (-1)
54	2.1 (890)	7.7 (672)	15.7 (671)	2.8 (25)	41.3 (630)	36.6 (377)	9. (377)	0. (-1)
55	3.6 (274)	4.8 (193)	1.6 (112)	2.1 (75)	8.5 (216)	12. (204)	3.1 (228)	0. (-1)
56	8.8 (531)	13.6 (239)	11. (467)	29.1 (476)	11. (464)	112.6 (403)	53. (403)	0. (-1)
57	1.2 (6)	4.6 (43)	2.9 (37)	1.6 (16)	2.1 (36)	35.2 (43)	4.9 (3)	0. (-1)
58	1.4 (5)	29.7 (2)	6.2 (3)	0. (-1)	4.4 (6)	0. (-1)	2.1 (6)	0. (-1)
59	1.6 (83)	2. (9)	48.5 (33)	2.4 (33)	27. (33)	847.2 (33)	332.3 (33)	0. (-1)
60	1.2 (6)	4.6 (43)	2.9 (37)	1.6 (16)	2.1 (36)	35.2 (43)	4.9 (3)	0. (-1)
61	1.4 (100)	3.2 (22)	5. (21)	10. (37)	73.5 (25)	5.9 (39)	2.4 (33)	0. (-1)
62	5.9 (16)	1.9 (62)	2.3 (14)	3.1 (83)	4003.6 (100)	13. (45)	2.6 (37)	0. (-1)
63	5.8 (50)	2.1 (32)	1.4 (54)	1.7 (32)	153.2 (5)	29.7 (60)	4.7 (54)	0. (-1)
64	1.2 (271)	2. (166)	1.5 (256)	1.2 (205)	60.2 (205)	3.1 (203)	2. (32)	0. (-1)
65	1.5 (108)	1.6 (9)	1.3 (36)	1.3 (9)	1826.9 (9)	2. (13)	2.1 (9)	0. (-1)
66	1.2 (1)	1.3 (22)	3.1 (36)	2.1 (4)	5. (22)	5.6 (13)	8.1 (35)	0. (-1)
67	12.2 (5)	2.2 (4)	2.7 (1)	2.1 (5)	2. (5)	0. (-1)	4.2 (5)	0. (-1)
68	1.2 (2)	1. (1)	1.5 (3)	0.9 (1)	1.6 (1)	0.9 (1)	0.9 (1)	0. (-1)
69	0. (-1)	1. (1)	2.6 (1)	2.5 (1)	2.4 (1)	0. (-1)	8.2 (1)	0. (-1)
70	1.6 (381)	3.2 (341)	8.8 (149)	16.3 (71)	5. (150)	23.4 (336)	6.6 (336)	0. (-1)
71	1.7 (178)	4.7 (250)	96.2 (265)	28.7 (265)	64.3 (222)	71.7 (392)	9.9 (264)	0. (-1)
72	1053. (573)	92. (573)	13.2 (311)	2.5 (7)	6.2 (913)	141. (1230)	8. (1107)	0. (-1)
73	7.2 (1618)	3.7 (1251)	170. (1152)	30.6 (1152)	54.5 (684)	260.1 (418)	11.5 (1772)	0. (-1)
74	1.7 (175)	2.4 (114)	4.9 (162)	20.5 (166)	3.9 (113)	10.5 (188)	6.5 (36)	0. (-1)
75	3.8 (354)	2.7 (204)	6.5 (203)	2.3 (203)	6.3 (203)	104.9 (203)	10.8 (203)	0. (-1)
76	1.6 (16)	5.7 (13)	7.5 (20)	3.1 (25)	8.6 (20)	12.8 (25)	4. (25)	0. (-1)
77	4.4 (159)	59.2 (275)	33.5 (49)	2.5 (207)	783. (158)	27.1 (7)	23.1 (284)	0. (-1)
78	1.8 (32)	3.2 (29)	5.4 (9)	3.4 (34)	238.5 (12)	3.3 (34)	41.7 (103)	0. (-1)
79	20.7 (56)	4.8 (36)	2.4 (126)	1.8 (36)	2.5 (103)	10.2 (126)	5.8 (28)	0. (-1)
80	3.8 (205)	2.9 (71)	4.4 (435)	4.9 (31)	4.2 (435)	44.7 (435)	10.8 (435)	0. (-1)
81	2.9 (234)	6.4 (231)	5.6 (231)	7.1 (11)	13.8 (120)	78.7 (238)	9.5 (238)	0. (-1)
82	1.5 (260)	1.8 (26)	10. (364)	4.5 (137)	8. (364)	128. (364)	23.1 (364)	0. (-1)
83	6.4 (121)	17. (49)	3.1 (211)	3.4 (89)	9.7 (47)	3.2 (70)	8.3 (106)	0. (-1)
84	1.4 (8)	1. (1)	1.6 (10)	1.5 (1)	2.2 (1)	0. (-1)	1.7 (9)	0. (-1)
85	2.8 (11)	3.5 (5)	1.7 (21)	0. (-1)	7.7 (9)	0. (-1)	6.8 (12)	0. (-1)
86	1.4 (342)	10. (306)	12.5 (309)	11.2 (327)	16.3 (176)	166.2 (416)	2304.6 (313)	0. (-1)
87	1.4 (121)	6.4 (283)	4.9 (273)	3.2 (179)	4.1 (123)	21.6 (273)	6.3 (273)	0. (-1)
88	17.5 (140)	6.2 (135)	3.1 (1)	6.3 (22)	7.9 (22)	9.7 (107)	3.1 (135)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
89	2. (163)	6.4 (51)	4.6 (18)	6.9 (18)	12.6 (264)	19.6 (77)	12.1 (281)	0. (-1)
90	1.3 (199)	9.7 (100)	11.2 (100)	34.4 (399)	14.3 (200)	137.9 (411)	37.7 (5)	0. (-1)
91	22.1 (331)	3.3 (36)	26.6 (265)	14. (382)	8.9 (382)	55.8 (235)	30.1 (273)	0. (-1)
92	12.9 (698)	13.8 (216)	25.5 (602)	17.5 (371)	67.3 (544)	239.3 (761)	35.4 (592)	0. (-1)
93	3.3 (116)	5.8 (78)	21.4 (45)	6.4 (56)	13.5 (54)	2.3 (18)	3.5 (56)	0. (-1)
94	12.5 (16)	6.9 (16)	7.9 (16)	11.9 (16)	46.2 (128)	123.8 (295)	134.1 (140)	0. (-1)
95	4.2 (140)	9. (7)	73.7 (109)	2.9 (156)	34.7 (108)	104.4 (156)	58.2 (12)	0. (-1)
96	1.7 (131)	6.1 (77)	115.8 (60)	0.8 (87)	7.1 (76)	5.8 (28)	21.7 (127)	0. (-1)
97	1.5 (51)	2.9 (249)	40.4 (274)	6.1 (163)	16. (294)	58.7 (159)	79. (193)	0. (-1)
98	1.3 (243)	2.8 (228)	4.4 (162)	2.5 (172)	27.6 (91)	1537.6 (88)	16.5 (99)	0. (-1)
99	3. (27)	10.7 (87)	43.1 (85)	5.8 (326)	33.1 (51)	133.2 (312)	41. (85)	0. (-1)
100	1.3 (74)	4.5 (108)	4.6 (167)	3.2 (167)	18.2 (85)	122.2 (167)	13.8 (167)	0. (-1)
101	3.9 (1104)	26.2 (898)	322.2 (913)	50.9 (2)	78.6 (590)	973.9 (147)	83.4 (1001)	0. (-1)
102	18.2 (731)	66.5 (648)	116.2 (666)	14.7 (731)	62. (661)	308. (771)	197.8 (739)	0. (-1)
103	18.2 (814)	68.4 (556)	454.7 (372)	14.7 (814)	68.7 (359)	308. (854)	197.8 (822)	0. (-1)
104	1.2 (5)	1.1 (10)	3.3 (5)	1. (4)	6.3 (5)	3.9 (8)	2. (6)	0. (-1)
105	5.5 (26)	10.3 (37)	24.4 (144)	6.4 (26)	30.2 (150)	11. (23)	92.3 (39)	0. (-1)
106	1.4 (55)	9.5 (111)	14650.2 (88)	89. (201)	89. (201)	135.3 (194)	123.4 (201)	0. (-1)
107	5.5 (37)	4.9 (36)	8.8 (36)	3. (21)	10.2 (10)	10.1 (26)	8.5 (36)	0. (-1)
108	1.8 (57)	9.1 (141)	226.5 (100)	79.6 (100)	7.4 (114)	12.4 (117)	23. (98)	0. (-1)
109	228. (1)	259. (1)	669. (1)	89. (111)	6132. (1)	232.5 (203)	123.4 (111)	0. (-1)
110	3.7 (259)	12.2 (230)	5.9 (1)	5.4 (160)	21.6 (1)	8.7 (74)	6.2 (73)	0. (-1)
111	2.5 (41)	3.9 (50)	7.7 (29)	2.2 (32)	15.9 (29)	10.1 (33)	1.8 (29)	0. (-1)
112	3.5 (25)	7130. (1)	1903. (1)	2.3 (34)	8.5 (18)	1.4 (41)	31.2 (33)	0. (-1)
113	1.2 (8)	2.8 (7)	1.3 (23)	4.7 (23)	1.9 (23)	1.1 (1)	1.8 (7)	0. (-1)
114	2.9 (128)	8.8 (82)	7. (82)	1.5 (331)	32.8 (335)	6.6 (334)	10.7 (326)	0. (-1)
115	3.7 (719)	6.1 (491)	5. (1083)	5.4 (399)	36.3 (946)	27.8 (1083)	15.9 (898)	0. (-1)
116	5. (77)	21. (174)	17.5 (2)	7. (212)	40.5 (174)	23.7 (372)	2.7 (203)	0. (-1)
117	1.4 (4)	4.7 (14)	22.4 (22)	0. (-1)	7.4 (30)	0. (-1)	0.7 (15)	0. (-1)
118	14. (1071)	33.1 (819)	8.5 (583)	5.6 (557)	69.1 (689)	80.3 (583)	60.3 (713)	0. (-1)
119	18.4 (22)	3.6 (100)	3.1 (17)	2.2 (24)	3428.4 (33)	48.5 (28)	26.2 (53)	0. (-1)
120	1.5 (177)	5.3 (140)	13.8 (38)	1.7 (189)	4782.7 (22)	119.4 (38)	20.4 (61)	0. (-1)
121	3.4 (35)	51.4 (154)	21.6 (152)	0. (-1)	10.2 (150)	2.3 (1)	6.8 (153)	0. (-1)
122	1.7 (1)	2.2 (6)	2.7 (101)	0. (-1)	6.7 (26)	0. (-1)	2.2 (27)	0. (-1)
123	1.5 (60)	11.1 (99)	3. (69)	3.5 (69)	12.7 (55)	25.3 (94)	11.8 (21)	0. (-1)
124	2.5 (139)	7. (92)	3. (233)	5.1 (47)	5.4 (176)	14.5 (233)	4.5 (233)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
125	1.9 (93)	6.1 (40)	1.3 (83)	1.2 (5)	28.9 (62)	3.9 (45)	11.2 (52)	0. (-1)
126	1.6 (162)	10.7 (244)	18.8 (240)	5.8 (266)	44.4 (289)	342.5 (240)	128.3 (240)	0. (-1)
127	4.7 (18)	41. (6)	6.4 (6)	1. (2)	10.4 (14)	7.4 (34)	2.4 (14)	0. (-1)
128	2.5 (20)	68.3 (18)	5.7 (20)	1.8 (62)	29.9 (59)	42.2 (62)	15.3 (55)	0. (-1)
129	1.4 (31)	2.8 (4)	1.5 (34)	1.2 (5)	18.7 (41)	4.7 (36)	2.2 (53)	0. (-1)
130	2.1 (65)	1.7 (65)	1.7 (108)	0.9 (66)	74.9 (84)	4.5 (48)	49.1 (113)	0. (-1)
131	2.8 (9)	25.1 (173)	88.8 (83)	88.7 (83)	77.1 (80)	82.9 (80)	73.6 (83)	0. (-1)
132	1.4 (13)	51. (23)	1.7 (16)	1.8 (16)	1.8 (16)	3.2 (16)	3.3 (16)	0. (-1)
133	1. (5)	2.2 (4)	3.1 (5)	2.1 (5)	2.2 (5)	1.9 (2)	3.3 (5)	0. (-1)
134	103. (1)	4.4 (7)	0. (-1)	0. (-1)	0. (-1)	4.8 (3)	0. (-1)	0. (-1)
135	3.6 (38)	6.2 (39)	5053. (40)	1.3 (37)	18. (39)	4.5 (7)	6.1 (11)	0. (-1)
136	1.8 (43)	3.4 (58)	55.5 (42)	0. (-1)	1.5 (38)	0. (-1)	2.4 (54)	0. (-1)
137	1.2 (3)	2.9 (5)	58.8 (7)	1.7 (2)	4.3 (13)	141.7 (17)	2.6 (5)	0. (-1)
138	1.7 (68)	1.6 (82)	17.7 (82)	1.6 (82)	12.7 (82)	22.9 (84)	40.8 (82)	0. (-1)
139	2.2 (7)	1.5 (7)	1.1 (1)	0.9 (1)	0.9 (1)	1. (2)	1. (2)	0. (-1)
140	237. (1)	202. (1)	150273. (1)	321. (1)	55772. (1)	771647. (2)	33969. (2)	0. (-1)
141	1.1 (4)	1. (1)	0.8 (7)	0.8 (4)	1. (8)	0.9 (7)	0.9 (4)	0. (-1)
142	7.9 (131)	13. (142)	22.5 (30)	22.2 (125)	16. (141)	16.3 (19)	14.4 (125)	0. (-1)
143	6.7 (96)	916.2 (159)	6.7 (149)	13.7 (114)	70.3 (164)	1277.6 (139)	14.4 (114)	0. (-1)
144	2.1 (19)	19.3 (64)	13.8 (51)	1.5 (31)	9346.9 (24)	18.6 (7)	61.6 (49)	0. (-1)
145	1.8 (64)	15.6 (38)	7.8 (41)	1.6 (17)	14716.2 (31)	113.9 (62)	2.7 (6)	0. (-1)
146	3.3 (35)	4.4 (21)	11.7 (19)	42.3 (19)	11.6 (19)	13.2 (19)	11.6 (19)	0. (-1)
147	4.7 (70)	11.3 (258)	20.8 (141)	16.8 (80)	2411.1 (236)	20.2 (80)	129.9 (245)	0. (-1)
148	4.3 (16)	11.6 (4)	146.6 (224)	29.1 (13)	780.5 (84)	163.8 (35)	12.5 (36)	0. (-1)
149	2.4 (513)	3.5 (535)	2.3 (536)	3.2 (370)	5.5 (197)	6.9 (416)	2.6 (432)	0. (-1)
150	3.3 (73)	3.1 (132)	49.7 (189)	11.5 (30)	5.6 (194)	4.4 (176)	4.1 (184)	0. (-1)
151	4.3 (60)	3.3 (69)	1.4 (21)	0. (-1)	2.1 (53)	21.8 (15)	0.8 (76)	0. (-1)
152	1.2 (19)	9. (16)	0. (-1)	0. (-1)	2.6 (20)	0. (-1)	4.1 (7)	0. (-1)
153	2.5 (51)	15.5 (38)	3.1 (22)	1.6 (25)	4.1 (15)	6.8 (52)	16.9 (14)	0. (-1)
154	4.1 (377)	1113.9 (276)	70.8 (50)	5.1 (95)	40.5 (214)	9.8 (187)	12.5 (213)	0. (-1)
155	8.8 (1)	6. (571)	39. (201)	125.2 (201)	28.5 (226)	11.9 (485)	53.7 (485)	0. (-1)
156	4.3 (3)	1.5 (37)	8. (122)	7.4 (2)	2.1 (26)	3. (14)	62.4 (38)	0. (-1)
157	1.4 (83)	1.7 (96)	16. (33)	3.8 (95)	3.9 (17)	9.7 (69)	37.4 (19)	0. (-1)
158	1.6 (18)	1.6 (4)	16. (46)	2.5 (46)	4.6 (58)	3.2 (25)	37.7 (39)	0. (-1)
159	1.9 (358)	2.7 (262)	13.5 (71)	8.6 (194)	10. (389)	11.6 (389)	7.9 (389)	0. (-1)
160	1.1 (7)	82. (17)	1. (2)	100. (13)	125. (17)	37. (13)	77. (13)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
161	1.2 (5)	1.5 (4)	5.1 (9)	4.6 (4)	2.4 (4)	4. (4)	6. (9)	0. (-1)
162	1.1 (4)	2.2 (4)	4.7 (4)	4.6 (4)	3.1 (6)	2.8 (4)	4.9 (4)	0. (-1)
163	2.3 (913)	3.7 (913)	14.5 (228)	18.3 (1189)	12.2 (1406)	31. (1034)	9.7 (1406)	0. (-1)
164	2.5 (297)	78. (5)	168. (5)	57. (1)	119. (8)	15.5 (461)	53. (1)	0. (-1)
165	91. (42)	145. (42)	40.3 (32)	1.1 (51)	2.9 (80)	1.5 (50)	4.2 (46)	0. (-1)
166	64. (24)	57. (24)	5.2 (44)	2.7 (5)	3.6 (5)	65. (36)	2.8 (5)	0. (-1)
167	2.3 (898)	3.7 (898)	14.5 (213)	18.3 (1174)	12.2 (1391)	31. (1019)	9.7 (1391)	0. (-1)
168	1.6 (202)	13.1 (44)	39.2 (172)	10.6 (23)	11.2 (91)	15.9 (189)	15.3 (28)	0. (-1)
169	1.2 (15)	1.3 (133)	10.6 (99)	4.9 (149)	5. (150)	11. (150)	10.2 (81)	0. (-1)
170	2.1 (71)	3.9 (361)	33.8 (438)	5.1 (346)	20.3 (438)	29.5 (318)	11. (390)	0. (-1)
171	1.6 (221)	12.4 (70)	94.2 (93)	2.9 (172)	10.1 (243)	2.4 (252)	45.6 (193)	0. (-1)
172	1.7 (249)	39.2 (308)	20.1 (156)	7.4 (10)	7.3 (171)	7. (6)	56. (66)	0. (-1)
173	1.4 (256)	16.3 (81)	12.5 (213)	79.5 (81)	9.2 (212)	8. (71)	17.7 (108)	0. (-1)
174	1.9 (39)	51.5 (68)	11.2 (75)	14.2 (44)	4.5 (15)	4.3 (27)	12.4 (34)	0. (-1)
175	2.6 (133)	12.4 (497)	31.3 (88)	9. (341)	8.8 (423)	38.1 (446)	35. (475)	0. (-1)
176	1.8 (503)	38.5 (131)	13.2 (148)	7.4 (390)	33.9 (197)	34.4 (183)	13.8 (45)	0. (-1)
177	0.9 (7)	5.4 (27)	21. (27)	4.8 (27)	5.2 (27)	0. (-1)	0. (-1)	0. (-1)
178	1.5 (289)	5. (360)	10.3 (231)	2.6 (126)	4.6 (414)	32.3 (355)	3.4 (340)	0. (-1)
179	1.1 (47)	3.3 (34)	4.3 (77)	2.5 (6)	5.7 (79)	17.1 (75)	2.8 (33)	0. (-1)
180	2.2 (612)	47.7 (614)	9. (603)	9. (151)	24.4 (506)	68.3 (341)	248.2 (364)	0. (-1)
181	2. (114)	35. (118)	3.1 (17)	4. (53)	7. (201)	2.6 (40)	86.2 (156)	0. (-1)
182	1.9 (628)	357.8 (774)	1249.3 (802)	30.7 (264)	15.9 (718)	79.3 (478)	19.3 (640)	0. (-1)
183	2.1 (466)	24.7 (1558)	56.7 (174)	8.6 (46)	15.7 (934)	223.9 (697)	424.5 (175)	0. (-1)
184	1.5 (12)	49.4 (31)	641. (48)	7.2 (16)	28.8 (35)	3.4 (1)	2.4 (6)	0. (-1)
185	1.3 (335)	9.3 (100)	1296.8 (353)	35.1 (48)	16.5 (327)	66.6 (265)	256.7 (14)	0. (-1)
186	1. (13)	10.5 (13)	2.7 (2)	12.4 (1)	2.3 (2)	13.1 (3)	24.8 (1)	0. (-1)
187	1.5 (30)	2.4 (17)	5.2 (15)	3.3 (19)	2.2 (17)	2.3 (30)	0.9 (30)	0. (-1)
188	6.2 (79)	2.5 (38)	7.4 (127)	15.3 (100)	3554.2 (74)	542.9 (50)	15.4 (32)	0. (-1)
189	1.9 (178)	11.6 (505)	2431.2 (524)	17.6 (418)	198.5 (324)	9937.7 (40)	544.2 (299)	0. (-1)
190	1.1 (9)	2.2 (2)	1.3 (6)	1.3 (2)	4.6 (1)	11.7 (4)	2.3 (2)	0. (-1)
191	1.2 (18)	1.5 (8)	1.3 (13)	1. (19)	51.7 (13)	2.8 (11)	1.9 (14)	0. (-1)
192	1.5 (58)	12.7 (250)	10.5 (343)	21.4 (209)	13.1 (209)	30. (193)	633.3 (22)	0. (-1)
193	2.1 (109)	1.8 (113)	3.5 (27)	21.3 (45)	1.7 (38)	2.2 (12)	69.6 (38)	0. (-1)
194	1.2 (110)	3.3 (203)	7.8 (201)	168.3 (37)	4.7 (44)	23.3 (45)	13.9 (217)	0. (-1)
195	1.1 (11)	1.1 (10)	1.4 (29)	8.1 (33)	1.1 (10)	3.9 (12)	1.6 (13)	0. (-1)
196	39. (7)	87. (19)	361. (21)	502. (30)	186. (18)	381. (17)	324. (26)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
197	1.2 (60)	3.7 (284)	8.3 (12)	16.5 (170)	4.1 (42)	2.5 (64)	12.5 (64)	0. (-1)
198	1.1 (21)	2.6 (61)	3.4 (50)	788.2 (7)	6.2 (52)	6. (41)	1.5 (6)	0. (-1)
199	4.3 (11)	4.3 (89)	5.5 (80)	3.2 (3)	4.2 (32)	35.5 (25)	3.7 (11)	0. (-1)
200	1.5 (16)	3.2 (1)	4.3 (20)	4.1 (3)	4.1 (20)	0. (-1)	3. (3)	0. (-1)
201	1.5 (28)	4.4 (139)	8.3 (76)	12.1 (133)	6.9 (33)	4.1 (9)	627.4 (22)	0. (-1)
202	1.5 (45)	1.3 (94)	4.2 (26)	4.2 (86)	1.4 (87)	6. (61)	4.3 (35)	0. (-1)
203	1.1 (11)	1. (10)	1.4 (29)	8.1 (32)	1.1 (10)	3.8 (12)	1.6 (13)	0. (-1)
204	1.4 (370)	34.4 (773)	7.5 (598)	6489.4 (123)	7.2 (484)	208.2 (474)	28.4 (782)	0. (-1)
205	1.1 (1)	2.8 (2)	2.4 (2)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
206	1. (1)	3. (1)	1.3 (1)	3.5 (1)	1.7 (1)	0. (-1)	1.5 (1)	0. (-1)
207	1.3 (496)	36.7 (454)	8.3 (79)	7944.2 (100)	8.1 (279)	77.7 (251)	7.2 (259)	0. (-1)
208	1.2 (268)	53.1 (393)	5.2 (59)	20.3 (115)	3.4 (319)	9. (35)	39.9 (35)	0. (-1)
209	1.5 (940)	41.8 (1158)	11.2 (398)	7808.5 (402)	7.5 (1007)	29.3 (565)	7.5 (994)	0. (-1)
210	1.6 (23)	1.8 (7)	4.6 (49)	18.9 (40)	3020.2 (18)	364.1 (22)	5.5 (7)	0. (-1)
211	1.3 (32)	2.6 (30)	5.9 (41)	5.5 (46)	6.9 (23)	1914.1 (28)	3.7 (47)	0. (-1)
212	1.2 (14)	2.1 (9)	2. (17)	1. (2)	15.2 (14)	13.9 (4)	7. (4)	0. (-1)
213	1.2 (11)	1.9 (5)	1.4 (20)	0.8 (11)	51.4 (8)	3.2 (12)	66.7 (8)	0. (-1)
214	1.5 (92)	19.4 (184)	186.8 (52)	1.3 (7)	5. (317)	3. (376)	2.3 (351)	0. (-1)
215	1.7 (555)	30.1 (617)	60.4 (628)	19. (393)	8.6 (80)	40. (172)	772.4 (550)	0. (-1)
216	1.6 (57)	7. (46)	1.8 (42)	2.9 (67)	7.5 (75)	1.3 (2)	324.8 (32)	0. (-1)
217	1.5 (507)	242.3 (678)	11965. (516)	141. (1121)	226.8 (1313)	68.3 (1213)	11.9 (657)	0. (-1)
218	1.5 (365)	145.1 (338)	15275. (454)	144. (373)	197.8 (463)	42.4 (280)	5.4 (477)	0. (-1)
219	1.2 (152)	3777.8 (109)	123.6 (126)	3. (83)	406.4 (150)	145.8 (74)	5.4 (83)	0. (-1)
220	2.1 (386)	44. (159)	612.9 (479)	18.1 (272)	20.7 (379)	62.9 (245)	776.9 (30)	0. (-1)
221	1.1 (20)	3.4 (19)	30046.9 (4)	0. (-1)	104.6 (22)	0. (-1)	0. (-1)	0. (-1)
222	1.3 (1)	4.5 (44)	9.4 (61)	11.2 (49)	4.9 (54)	2.5 (24)	6. (22)	0. (-1)
223	1.1 (21)	2.5 (44)	1.1 (21)	7.9 (52)	4.5 (39)	16.9 (21)	1.7 (21)	0. (-1)
224	1.3 (13)	9.4 (48)	1.6 (1)	1.3 (4)	4.9 (20)	2.6 (1)	2.3 (2)	0. (-1)
225	1.9 (15)	2.5 (11)	2.1 (9)	3.3 (11)	4. (7)	1.3 (2)	2.5 (7)	0. (-1)
226	145. (15)	400. (15)	311. (15)	396. (15)	236. (15)	1.2 (2)	329. (15)	0. (-1)
227	1.5 (44)	3.8 (22)	26.7 (102)	1.9 (94)	40.1 (103)	35.7 (93)	2.4 (94)	0. (-1)
228	1.4 (57)	13.4 (37)	7.1 (30)	22.4 (42)	13.3 (57)	59.8 (7)	17.1 (37)	0. (-1)
229	1.1 (13)	3.8 (21)	31763.8 (3)	0. (-1)	98.2 (11)	0. (-1)	0. (-1)	0. (-1)
230	1.5 (1)	5.6 (42)	9.4 (59)	18.7 (47)	4.9 (59)	2.4 (22)	33.1 (8)	0. (-1)
231	1.4 (54)	4.7 (42)	7.4 (269)	25.9 (47)	5.7 (42)	3.3 (1)	11.7 (42)	0. (-1)
232	2.1 (819)	251.5 (874)	8.1 (839)	1460.2 (263)	7. (515)	2.6 (5)	5.8 (513)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
233	1.6 (140)	40.2 (153)	4.2 (290)	2.9 (65)	5.2 (110)	0. (-1)	4.5 (230)	0. (-1)
234	1.8 (319)	19.3 (232)	19. (335)	3.7 (67)	37.3 (336)	13.1 (90)	6.1 (295)	0. (-1)
235	1.4 (83)	84.4 (211)	74.6 (153)	37.5 (109)	8.8 (159)	0. (-1)	5.1 (159)	0. (-1)
236	2.5 (212)	227.9 (265)	13.3 (243)	43.2 (130)	15.3 (263)	3. (170)	4.3 (256)	0. (-1)
237	1.4 (346)	374.7 (634)	8.5 (171)	1629.1 (267)	8.2 (336)	2.2 (47)	6.9 (335)	0. (-1)
238	1.1 (48)	5.1 (25)	4.9 (19)	13.5 (25)	2.6 (58)	2.9 (33)	2.7 (41)	0. (-1)
239	1.4 (930)	471.8 (1351)	9. (1067)	2062.5 (624)	7.8 (923)	3. (930)	7.6 (489)	0. (-1)
240	1.5 (19)	65.3 (138)	67. (431)	58. (256)	27.3 (461)	6. (459)	15. (389)	0. (-1)
241	1. (1)	13.2 (39)	4.1 (29)	14.9 (16)	5.1 (6)	0. (-1)	5.7 (18)	0. (-1)
242	1.2 (68)	3.2 (18)	5.7 (73)	120.4 (20)	4.5 (68)	2.2 (53)	4.2 (20)	0. (-1)
243	1.4 (54)	3. (42)	5.7 (21)	33.4 (39)	3.8 (42)	3.1 (1)	3.1 (41)	0. (-1)
244	1.3 (50)	5.3 (36)	6.6 (15)	6.4 (13)	7.8 (20)	0. (-1)	13.6 (15)	0. (-1)
245	1.5 (15)	2.5 (8)	2. (9)	4.9 (8)	3.7 (14)	0. (-1)	2.2 (8)	0. (-1)
246	1.3 (20)	3.3 (10)	1.9 (5)	3.5 (1)	5. (22)	0. (-1)	2.2 (10)	0. (-1)
247	1.3 (6)	2.2 (3)	2.1 (8)	2.5 (8)	2.3 (9)	3.2 (8)	3.3 (12)	0. (-1)
248	1. (1)	1.2 (1)	1.8 (1)	0. (-1)	1.4 (1)	0. (-1)	0. (-1)	0. (-1)
249	1.2 (7)	3.1 (18)	7.3 (15)	39.7 (11)	16.6 (11)	0. (-1)	5.3 (16)	0. (-1)
250	1.3 (27)	4.2 (25)	5.2 (74)	39.4 (15)	4.6 (69)	2.3 (53)	2.9 (61)	0. (-1)
251	2. (50)	4.5 (102)	3.1 (3)	48.6 (89)	2.6 (88)	13.6 (15)	238.6 (66)	0. (-1)
252	8.8 (128)	4.5 (73)	5.5 (8)	13. (82)	2. (102)	17. (87)	2104.7 (129)	0. (-1)
253	4. (22)	2.7 (29)	2.5 (12)	16.4 (22)	7.2 (20)	35.2 (22)	47.7 (20)	0. (-1)
254	10.8 (702)	718.9 (361)	170.3 (378)	5742.6 (430)	264.3 (437)	4789.3 (407)	808.7 (345)	0. (-1)
255	3.3 (23)	24.3 (272)	4.6 (211)	9.5 (209)	8.5 (143)	18.8 (124)	406.5 (236)	0. (-1)
256	7.7 (600)	1972. (326)	4100740.7 (487)	2494919. (184)	1339. (108)	6948.3 (449)	1957357. (237)	0. (-1)
257	1.8 (299)	9.8 (164)	9.4 (331)	58.8 (171)	13.9 (273)	10.3 (396)	5930.5 (96)	0. (-1)
258	1. (1)	2.7 (1)	6.9 (9)	0.4 (5)	12. (4)	1.1 (5)	0.7 (5)	0. (-1)
259	4.3 (259)	7.9 (276)	8.4 (1)	90.9 (225)	4.2 (235)	5.6 (18)	2097.9 (70)	0. (-1)
260	19.2 (46)	9.1 (145)	1.8 (82)	81.3 (46)	4.2 (75)	16.2 (57)	264.4 (43)	0. (-1)
261	6697. (6)	547. (6)	374. (6)	158. (33)	640. (6)	3.6 (19)	311. (6)	0. (-1)
262	1.7 (26)	11.3 (344)	7.7 (276)	12.1 (56)	3.6 (6)	8.1 (85)	16.6 (134)	0. (-1)
263	1.1 (14)	2. (8)	2.9 (14)	2.4 (1)	1.7 (1)	2.7 (1)	8.5 (8)	0. (-1)
264	1.7 (30)	2.5 (28)	4.3 (25)	1.8 (24)	1.7 (7)	2.2 (11)	11.5 (53)	0. (-1)
265	1.5 (12)	2.6 (6)	10.1 (57)	3.1 (12)	5.9 (169)	3.8 (46)	7.3 (87)	0. (-1)
266	2.4 (172)	3.9 (475)	19.9 (90)	3.3 (192)	6. (468)	2.9 (377)	56.7 (447)	0. (-1)
267	1.3 (101)	5962. (103)	15.5 (127)	1.8 (170)	8.6 (167)	2.9 (177)	3.5 (22)	0. (-1)
268	1.1 (4)	1.7 (5)	1. (28)	0.9 (28)	0.9 (28)	1.5 (15)	1.3 (3)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
269	1.2 (40)	11. (91)	7.7 (50)	2.2 (1)	5.7 (6)	2. (35)	4.6 (57)	0. (-1)
270	1.1 (3)	2.1 (1)	2.9 (14)	2.4 (1)	1.7 (1)	2.7 (1)	8.5 (8)	0. (-1)
271	1.8 (32)	4.9 (41)	2.7 (157)	1.8 (155)	3. (7)	2.3 (11)	26.4 (147)	0. (-1)
272	1.5 (12)	1.8 (16)	10.1 (57)	4.2 (46)	5.9 (105)	4. (46)	7. (32)	0. (-1)
273	2.4 (177)	3.9 (1)	19.9 (92)	3.3 (197)	8.3 (645)	3.1 (415)	67.5 (622)	0. (-1)
274	1.3 (15)	2. (5)	2.8 (5)	2.4 (11)	2.4 (21)	2. (23)	36.3 (23)	0. (-1)
275	1.1 (21)	4.7 (20)	3. (12)	0.9 (16)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
276	1.4 (50)	11.4 (54)	27.1 (147)	5.4 (67)	5.6 (50)	13.1 (131)	10.3 (121)	0. (-1)
277	2.1 (24)	4. (83)	114.6 (118)	1.5 (165)	2.3 (105)	7.5 (105)	1.9 (134)	0. (-1)
278	1.3 (22)	3.7 (25)	42.8 (20)	1.8 (8)	9212.2 (24)	44.7 (8)	11.8 (6)	0. (-1)
279	6.7 (315)	6.4 (428)	183.8 (1264)	4.8 (218)	12.6 (1222)	4.3 (197)	5.9 (1165)	0. (-1)
280	1.9 (67)	3.3 (44)	24.6 (45)	26.7 (53)	3. (38)	9.5 (20)	26.3 (37)	0. (-1)
281	2. (78)	11.4 (16)	27.3 (81)	5.4 (16)	5.6 (12)	3. (9)	3. (1)	0. (-1)
282	2.3 (23)	1.3 (54)	28.2 (31)	1.8 (40)	1.3 (61)	6.3 (45)	1.9 (6)	0. (-1)
283	1. (1)	0. (-1)	5.8 (1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
284	1.7 (33)	3.2 (33)	2.7 (6)	1.3 (20)	6.8 (18)	2. (37)	1.7 (4)	0. (-1)
285	2.6 (36)	4.1 (28)	11.1 (28)	26.7 (37)	3.2 (22)	5.9 (8)	27.1 (22)	0. (-1)
286	1.3 (23)	12.7 (22)	2.9 (26)	1.7 (14)	4. (24)	2.7 (8)	2.6 (2)	0. (-1)
287	1.4 (8)	2.7 (107)	6. (105)	3.4 (31)	8.7 (151)	2.5 (12)	84.8 (69)	0. (-1)
288	1.3 (26)	13. (21)	3.3 (26)	1.6 (13)	4. (23)	2.7 (8)	3.5 (26)	0. (-1)
289	1.4 (71)	3. (114)	6. (112)	1.9 (22)	8.7 (156)	2.6 (12)	27.3 (91)	0. (-1)
290	2.7 (319)	515.8 (537)	140.9 (527)	18.8 (590)	105. (505)	138.5 (570)	7. (689)	0. (-1)
291	1.7 (53)	2.5 (120)	38.5 (68)	26. (79)	36.5 (102)	43.6 (33)	12.2 (33)	0. (-1)
292	2.9 (87)	4.5 (153)	7.6 (62)	7.7 (104)	147.8 (155)	18.4 (25)	3.6 (83)	0. (-1)
293	1.5 (178)	10.9 (193)	7.5 (379)	3.7 (327)	24.5 (496)	5.3 (96)	8.7 (6)	0. (-1)
294	1.4 (36)	2.1 (3)	3.4 (98)	12.9 (90)	6.6 (20)	1.9 (10)	6.9 (29)	0. (-1)
295	1.8 (11)	1.5 (24)	1.8 (28)	6. (7)	5.4 (21)	0. (-1)	1.1 (7)	0. (-1)
296	1.7 (312)	8.7 (365)	7.3 (126)	21.3 (134)	32.5 (87)	26.4 (102)	25.9 (273)	0. (-1)
297	1.9 (22)	1.9 (7)	4.6 (28)	5.8 (23)	2699.3 (18)	464.2 (15)	21.2 (7)	0. (-1)
298	1.9 (233)	9.9 (358)	3.9 (35)	21.9 (279)	100.7 (58)	396.8 (35)	23.5 (75)	0. (-1)
299	1.5 (16)	13.6 (173)	3.4 (15)	3.6 (1)	16.2 (36)	4.1 (8)	8.7 (6)	0. (-1)
300	2.1 (109)	1.8 (38)	8. (107)	3.5 (5)	4.3 (108)	2.3 (12)	18. (32)	0. (-1)
301	1.3 (29)	2.1 (3)	3.4 (64)	12.9 (56)	6.6 (20)	1.9 (10)	5.2 (25)	0. (-1)
302	1.8 (11)	1.5 (12)	1.8 (28)	6. (7)	5.4 (21)	0. (-1)	1.1 (7)	0. (-1)
303	1.6 (262)	8.7 (329)	6.8 (10)	11.4 (196)	40.1 (177)	27.1 (68)	25.9 (246)	0. (-1)
304	1.9 (29)	2.2 (14)	5.5 (8)	5.8 (30)	2966.3 (25)	376.7 (15)	16.8 (23)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
305	1.4 (21)	2.5 (11)	3.3 (13)	7.4 (13)	56.7 (12)	376.7 (16)	2.9 (37)	0. (-1)
306	1.3 (2)	3.6 (63)	5.5 (68)	3. (8)	23.5 (11)	1.5 (8)	3. (8)	0. (-1)
307	2. (73)	4.1 (73)	4.1 (145)	12.6 (198)	65.9 (210)	98.5 (64)	4.2 (103)	0. (-1)
308	1.6 (23)	10.7 (101)	7.5 (221)	23.3 (190)	177.3 (253)	7.3 (171)	13. (219)	0. (-1)
309	1.7 (2)	3.7 (47)	5.8 (37)	3.7 (8)	20. (47)	11.7 (27)	3.2 (8)	0. (-1)
310	2.4 (114)	6.4 (118)	6.2 (35)	13. (198)	66.3 (210)	11.6 (153)	5.8 (118)	0. (-1)
311	1.3 (46)	10.3 (47)	7.5 (24)	6.3 (10)	177.8 (46)	5.5 (5)	13. (45)	0. (-1)
312	1.3 (6)	1.9 (1)	2.9 (5)	2.5 (7)	16.2 (9)	0. (-1)	2.7 (7)	0. (-1)
313	1.2 (76)	2.8 (87)	3.6 (86)	2. (19)	22.6 (89)	1.5 (3)	2. (38)	0. (-1)
314	3.5 (186)	2.7 (27)	11.8 (27)	8.6 (59)	247.8 (146)	2.3 (191)	5.4 (186)	0. (-1)
315	1.7 (19)	14.4 (168)	8.7 (48)	21.9 (158)	169.2 (218)	5. (142)	6.4 (219)	0. (-1)
316	1.4 (6)	4.6 (26)	4.6 (5)	3.1 (7)	15.7 (9)	0. (-1)	2.8 (7)	0. (-1)
317	1.3 (19)	4.7 (89)	3.9 (85)	2.3 (19)	28.8 (19)	1.4 (3)	1.9 (3)	0. (-1)
318	3.3 (160)	5.7 (24)	22.3 (24)	6.3 (24)	33.8 (124)	2.1 (165)	9. (24)	0. (-1)
319	1.2 (7)	3.4 (24)	5.6 (18)	6.2 (1)	96.8 (15)	0. (-1)	8.8 (22)	0. (-1)
320	2.5 (4)	3. (4)	1.2 (2)	1.2 (8)	12.4 (7)	12.6 (1)	11.8 (8)	0. (-1)
321	1.9 (115)	4.1 (103)	2.2 (42)	3.2 (78)	44. (111)	14.9 (16)	9.6 (14)	0. (-1)
322	8.3 (136)	4.4 (94)	3.8 (102)	3.5 (68)	38.8 (102)	14.2 (103)	9.6 (103)	0. (-1)
323	5. (22)	2. (31)	8.2 (22)	12. (7)	46. (21)	40.3 (22)	10.1 (34)	0. (-1)
324	1.5 (137)	7.3 (287)	7.5 (256)	12.3 (57)	4.9 (287)	8.2 (86)	8.5 (57)	0. (-1)
325	1.2 (14)	2.1 (1)	2.1 (1)	2.5 (1)	2.5 (1)	2.7 (1)	3.8 (1)	0. (-1)
326	1.7 (36)	1724. (3)	2.7 (41)	1.4 (20)	324. (1)	1. (36)	2.3 (24)	0. (-1)
327	1.5 (12)	3.4 (254)	10.2 (56)	3.1 (12)	6. (170)	3.6 (46)	2.4 (154)	0. (-1)
328	2.4 (229)	3.5 (242)	23. (87)	3.4 (231)	4.9 (480)	3.5 (95)	2.6 (127)	0. (-1)
329	1.2 (14)	4.8 (46)	4. (52)	1.6 (12)	5.3 (11)	2. (12)	2.9 (9)	0. (-1)
330	1.4 (144)	5.5 (143)	7.2 (149)	9.2 (11)	5.9 (188)	1.2 (159)	6.3 (11)	0. (-1)
331	1.1 (13)	2.8 (8)	2.1 (1)	2.2 (1)	2.3 (1)	0. (-1)	3.4 (1)	0. (-1)
332	1.8 (32)	3.2 (39)	2.3 (18)	1.2 (135)	2. (7)	0. (-1)	2. (19)	0. (-1)
333	1.5 (13)	5.5 (145)	9.9 (44)	2.7 (13)	5.2 (147)	0. (-1)	2.2 (131)	0. (-1)
334	1.8 (307)	11.8 (165)	17.2 (90)	2.6 (22)	7.4 (406)	0. (-1)	1.7 (135)	0. (-1)
335	1.4 (60)	3.7 (53)	3.8 (58)	1.2 (14)	9.7 (20)	0. (-1)	2.8 (18)	0. (-1)
336	2.1 (81)	8.2 (323)	22.1 (318)	4.3 (72)	6.3 (315)	5.1 (98)	7.6 (133)	0. (-1)
337	2.5 (201)	3. (219)	43.8 (156)	5.3 (201)	13.7 (215)	30.9 (63)	7.5 (1)	0. (-1)
338	1.6 (21)	7.9 (18)	53. (20)	2.3 (41)	31.4 (36)	62.9 (8)	10.6 (1)	0. (-1)
339	3.3 (439)	5.6 (156)	71.1 (235)	16.1 (244)	7.1 (512)	4.5 (307)	6.7 (15)	0. (-1)
340	1.9 (78)	17.8 (42)	32. (46)	5.2 (15)	5. (37)	118.9 (37)	15.4 (37)	0. (-1)

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Table 1.6 – continued from previous page

file #	Rubi	Mathematica	Maple	Maxima	FriCAS	Sympy	Giac	Mupac
341	2.1 (170)	8.2 (121)	1614.5 (38)	3.3 (68)	6.3 (113)	4.3 (75)	5.1 (172)	0. (-1)
342	2.3 (23)	1.8 (43)	36.8 (31)	3.9 (49)	3.4 (49)	5.3 (48)	6.1 (6)	0. (-1)
343	1. (1)	5.3 (1)	5.3 (1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
344	1.6 (5)	2.4 (7)	5.8 (7)	2.8 (20)	7.1 (18)	1.8 (26)	6. (1)	0. (-1)
345	2.8 (41)	10.8 (36)	23.5 (34)	3.8 (20)	5. (27)	118.9 (27)	15.3 (27)	0. (-1)
346	1.4 (5)	3.6 (29)	5.2 (5)	0.8 (4)	9.3 (6)	0. (-1)	0. (-1)	0. (-1)
347	1.4 (7)	18.4 (85)	7.9 (123)	1.4 (47)	8.9 (167)	1.5 (35)	0. (-1)	0. (-1)
348	1.4 (4)	8.2 (13)	2.8 (6)	1.3 (28)	7.3 (28)	0.9 (22)	0. (-1)	0. (-1)
349	2.4 (72)	3.2 (115)	5.8 (113)	2.1 (10)	9.7 (157)	1.2 (9)	0. (-1)	0. (-1)
350	1.8 (283)	1.6 (138)	2.1 (190)	1.1 (31)	2. (140)	2.7 (221)	2. (150)	0. (-1)
351	2. (181)	2.5 (57)	1.5 (92)	3.3 (136)	2.5 (60)	2. (179)	0. (-1)	0. (-1)
352	1.7 (54)	1.1 (5)	2.2 (55)	2.2 (65)	1.5 (69)	114.2 (16)	2.7 (55)	0. (-1)
353	1.8 (52)	1.8 (35)	3.3 (134)	5. (88)	5.7 (117)	7.8 (69)	557.1 (66)	0. (-1)
354	1.7 (45)	1.8 (35)	1.2 (7)	0. (-1)	0. (-1)	9.1 (69)	0. (-1)	0. (-1)
355	4.2 (130)	4.3 (159)	92.4 (68)	26. (60)	1534.9 (86)	160. (81)	92.9 (68)	0. (-1)
356	1.1 (1)	1. (2)	1.2 (14)	0. (-1)	0. (-1)	0. (-1)	0. (-1)	0. (-1)
357	1.4 (161)	1.3 (153)	2.4 (41)	4.1 (155)	2.7 (28)	4.9 (30)	0. (-1)	0. (-1)
358	1.3 (105)	1.1 (366)	2.2 (291)	1.4 (4)	2.1 (364)	1.9 (358)	0. (-1)	0. (-1)
359	66.8 (46)	527.7 (105)	439.4 (227)	439.4 (227)	21.8 (64)	522.8 (105)	573.4 (258)	0. (-1)
360	3.2 (77)	10. (17)	1.5 (2)	6.5 (16)	10. (23)	23.3 (162)	12.5 (18)	0. (-1)
361	224.7 (703)	5605.6 (2439)	6816.7 (2524)	152.4 (703)	145.9 (2571)	164.5 (2571)	4761.5 (2727)	0. (-1)
362	265. (1928)	5645.2 (2956)	1580.6 (1154)	430.8 (948)	78.3 (2418)	52.7 (2449)	39084.8 (2246)	0. (-1)
363	130.3 (400)	21182. (1738)	767.1 (1263)	1205. (99)	126.2 (731)	363.2 (2409)	2340.2 (284)	0. (-1)
364	430.4 (1124)	365.7 (72)	892063.8 (1190)	205.3 (735)	25.6 (735)	37. (735)	395.1 (755)	0. (-1)
365	2.9 (6)	1. (1)	7.5 (9)	1.4 (1)	1.2 (8)	0.7 (2)	0. (-1)	0. (-1)
366	88.4 (910)	650.2 (1384)	182975.9 (2420)	6.9 (1028)	14782.7 (2646)	20.4 (315)	31. (1760)	0. (-1)
367	10.1 (38)	14.4 (41)	1.6 (50)	7.3 (7)	4953.2 (18)	11.2 (93)	16.1 (3)	0. (-1)

1.11 Pass/Fail per test file for each CAS system

The following table gives the number of passed integrals and number of failed integrals per test number. There are 210 tests. Each tests corresponds to one input file.

Table 1.7: Pass/Fail per test file for each CAS

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
1	175	0	175	0	173	2	166	9	174	1	165	10	171	4	169	6	160	15
2	33	2	34	1	28	7	16	19	25	10	9	26	17	18	9	26	11	24
3	13	1	14	0	12	2	8	6	13	1	9	5	10	4	11	3	8	6
4	76	0	76	0	76	0	76	0	76	0	76	0	76	0	76	0	76	0
5	48	2	50	0	33	17	26	24	50	0	19	31	41	9	12	38	23	27
6	279	5	284	0	283	1	251	33	281	3	255	29	270	14	270	14	267	17
7	3	4	7	0	5	2	3	4	7	0	5	2	5	2	7	0	4	3
8	7	2	9	0	9	0	7	2	9	0	5	4	9	0	9	0	6	3
9	113	0	113	0	113	0	111	2	112	1	107	6	111	2	106	7	109	4
10	376	0	376	0	376	0	374	2	376	0	363	13	376	0	372	4	357	19
11	705	0	705	0	656	49	565	140	662	43	460	245	594	111	542	163	465	240
12	110	6	102	14	88	28	20	96	90	26	29	87	36	80	37	79	27	89
13	8	0	8	0	8	0	7	1	8	0	8	0	8	0	8	0	8	0
14	111	0	111	0	111	0	111	0	111	0	111	0	111	0	111	0	111	0
15	832	0	832	0	691	141	687	145	691	141	811	21	632	200	596	236	664	168
16	299	0	299	0	207	92	141	158	218	81	134	165	141	158	123	176	158	141
17	802	0	802	0	507	295	347	455	559	243	306	496	444	358	465	337	488	314
18	352	0	352	0	347	5	347	5	347	5	338	14	339	13	319	33	348	4
19	354	0	354	0	294	60	193	161	294	60	173	181	215	139	172	182	220	134
20	626	0	626	0	471	155	146	480	500	126	156	470	410	216	214	412	405	221
21	264	0	264	0	243	21	155	109	242	22	130	134	239	25	213	51	238	26
22	1836	1	1835	2	1616	221	1174	663	1654	183	847	990	1237	600	937	900	1244	593
23	233	6	236	3	224	15	40	199	177	62	74	165	216	23	192	47	205	34
24	157	1	153	5	121	37	15	143	44	114	8	150	32	126	18	140	26	132
25	30	0	30	0	30	0	30	0	30	0	30	0	30	0	23	7	30	0
26	192	0	192	0	177	15	94	98	166	26	86	106	177	15	26	166	140	52
27	100	0	100	0	100	0	49	51	84	16	11	89	71	29	64	36	68	32
28	43	0	43	0	43	0	1	42	9	34	0	43	1	42	1	42	1	42
29	136	0	134	2	68	68	60	76	65	71	136	0	61	75	136	0	65	71
30	1304	0	1304	0	805	499	633	671	749	555	1264	40	612	692	734	570	655	649
31	564	0	564	0	339	225	105	459	347	217	173	391	124	440	86	478	139	423
32	1662	1	1661	2	1301	362	830	833	1227	436	882	781	971	692	889	774	956	707
33	378	193	424	147	381	190	44	527	229	342	53	518	168	403	60	511	138	433

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
34	186	210	304	92	264	132	14	382	115	281	29	367	14	382	14	382	17	379
35	151	0	151	0	107	44	107	44	107	44	151	0	107	44	91	60	107	44
36	270	0	270	0	251	19	244	26	251	19	242	28	247	23	123	147	250	20
37	57	0	57	0	52	5	7	50	52	5	5	52	8	49	5	52	9	48
38	30	18	31	17	31	17	0	48	0	48	0	48	6	42	0	48	7	41
39	15	3	15	3	15	3	0	18	0	18	0	18	0	18	0	18	0	18
40	41	0	41	0	32	9	19	22	32	9	41	0	12	29	41	0	12	29
41	52	0	52	0	42	10	20	32	42	10	52	0	8	44	52	0	8	44
42	197	0	197	0	140	57	121	76	119	78	190	7	122	75	197	0	122	75
43	456	0	456	0	418	38	290	166	401	55	442	14	275	181	340	116	267	189
44	727	0	727	0	592	135	432	295	571	156	709	18	388	339	441	286	352	379
45	658	0	658	0	368	290	321	337	437	221	650	8	338	320	321	337	324	334
46	573	0	573	0	565	8	504	69	544	29	567	6	485	88	483	90	504	69
47	701	0	701	0	552	149	543	158	589	112	690	11	441	260	499	202	546	158
48	132	0	132	0	129	3	79	53	123	9	111	21	114	18	117	15	123	9
49	69	0	69	0	47	22	43	26	48	21	11	58	52	17	20	49	52	17
50	189	1	190	0	111	79	70	120	88	102	72	118	32	158	52	138	32	158
51	134	0	134	0	87	47	40	94	54	80	54	80	28	106	34	100	28	100
52	147	0	146	1	74	73	42	105	73	74	68	79	39	108	66	81	63	84
53	6	0	5	1	0	6	0	6	3	3	0	6	0	6	0	6	0	6
54	894	2	894	2	760	136	333	563	666	230	419	477	439	457	447	449	243	653
55	299	0	299	0	215	84	114	185	189	110	187	112	103	196	116	183	82	217
56	608	2	607	3	262	348	195	415	299	311	309	301	190	420	196	414	225	388
57	43	0	43	0	43	0	43	0	43	0	18	25	42	1	37	6	43	0
58	16	1	16	1	12	5	6	11	7	10	0	17	5	12	6	11	7	10
59	86	5	87	4	32	59	32	59	28	63	24	67	32	59	32	59	35	56
60	43	0	43	0	43	0	43	0	43	0	18	25	42	1	37	6	43	0
61	115	0	115	0	98	17	44	71	98	17	111	4	51	64	67	48	51	64
62	122	0	122	0	116	6	104	18	116	6	107	15	104	18	104	18	104	18
63	70	0	70	0	57	13	54	16	56	14	56	14	56	14	60	10	54	16
64	273	0	273	0	270	3	226	47	270	3	199	74	226	47	228	45	226	47
65	113	0	113	0	92	21	18	95	69	44	104	9	18	95	21	92	18	95
66	38	0	38	0	31	7	31	7	33	5	31	7	25	13	26	12	31	7
67	4	1	5	0	4	1	2	3	2	3	0	5	2	3	2	3	2	3
68	6	0	6	0	5	1	1	5	5	1	1	5	1	5	1	5	1	5
69	0	1	1	0	1	0	1	0	1	0	0	1	1	0	1	0	1	0
70	391	0	391	0	282	109	222	169	299	92	123	268	252	139	212	179	248	144
71	477	0	472	5	368	109	231	246	352	125	210	267	264	213	271	206	268	209
72	1299	0	1299	0	1104	195	487	812	1097	202	406	893	928	371	359	940	993	306
73	1904	44	1856	92	1635	313	766	1182	1460	488	812	1136	1181	767	933	1015	1206	742
74	252	0	252	0	219	33	162	90	219	33	54	198	206	46	57	195	211	41
75	371	0	283	88	54	317	54	317	54	317	177	194	53	318	55	316	54	317

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
76	28	1	27	2	22	7	18	11	19	10	18	11	18	11	20	9	19	10
77	325	61	322	64	230	156	113	273	245	141	79	307	180	206	107	279	209	177
78	104	0	103	1	102	2	31	73	100	4	12	92	61	43	35	69	69	35
79	144	0	144	0	95	49	68	76	79	65	51	93	79	65	143	1	75	69
80	462	0	462	0	300	162	136	326	288	174	40	422	250	212	178	284	270	192
81	261	0	261	0	238	23	135	126	238	23	116	145	177	84	146	115	172	89
82	376	0	376	0	357	19	229	147	357	19	126	250	347	29	202	174	357	19
83	272	3	275	0	243	32	111	164	257	18	28	247	159	116	60	215	222	53
84	9	1	10	0	10	0	4	6	10	0	0	10	10	0	0	10	10	0
85	22	0	22	0	22	0	0	22	22	0	0	22	4	18	0	22	13	9
86	438	0	438	0	368	70	164	274	320	118	129	309	250	188	199	239	274	164
87	298	0	296	2	275	23	212	86	277	21	141	157	227	71	197	101	228	70
88	170	0	170	0	131	39	119	51	131	39	122	48	129	41	128	42	131	39
89	343	1	344	0	329	15	252	92	329	15	211	133	295	49	258	86	297	47
90	454	0	454	0	438	16	312	142	438	16	248	206	394	60	327	127	434	20
91	404	0	404	0	338	66	204	200	338	66	204	200	296	108	275	129	332	72
92	797	1	793	5	654	144	272	526	646	152	308	490	508	290	442	356	504	294
93	143	0	121	22	107	36	54	89	107	36	31	112	79	64	66	77	89	54
94	309	1	301	9	286	24	227	83	276	34	142	168	239	71	214	96	236	74
95	176	6	170	12	156	26	58	124	128	54	50	132	95	87	85	97	87	95
96	151	0	151	0	145	6	1	150	145	6	12	139	73	78	29	122	126	25
97	316	0	316	0	287	29	72	244	273	43	22	294	246	70	130	186	274	42
98	240	6	246	0	230	16	70	176	230	16	102	144	171	75	125	121	155	91
99	505	2	503	4	489	18	355	152	456	51	239	268	397	110	283	224	389	118
100	167	5	172	0	169	3	87	85	167	5	78	94	131	41	101	71	127	45
101	1130	2	1126	6	1087	45	613	519	1048	84	496	636	938	194	653	479	921	211
102	754	40	787	7	749	45	534	260	681	113	382	412	634	160	462	332	618	176
103	844	33	869	8	812	65	232	645	613	264	195	682	634	243	428	449	580	297
104	11	2	11	2	7	6	1	12	6	7	5	8	5	8	4	9	5	8
105	169	11	173	7	163	17	106	74	154	26	102	78	135	45	92	88	121	59
106	205	7	212	0	205	7	33	179	136	76	37	175	102	110	39	173	95	117
107	37	0	37	0	37	0	19	18	37	0	28	9	37	0	32	5	32	5
108	168	0	165	3	165	3	135	33	126	42	71	97	122	46	53	115	96	72
109	206	1	204	3	181	26	128	79	181	26	82	125	175	32	75	132	177	30
110	237	23	260	0	259	1	128	132	167	93	86	174	98	162	3	257	124	136
111	33	17	50	0	50	0	5	45	21	29	2	48	8	42	0	50	20	30
112	51	24	75	0	75	0	8	67	20	55	8	67	19	56	11	64	28	47
113	29	3	29	3	25	7	17	15	25	7	10	22	23	9	4	28	19	13
114	344	0	344	0	343	1	7	337	344	0	29	315	14	330	35	309	14	330
115	1104	5	1107	2	1041	68	736	373	1037	72	511	598	900	209	759	350	881	228
116	401	92	445	48	436	57	42	451	402	91	232	261	110	383	80	413	127	366
117	30	0	30	0	30	0	0	30	30	0	0	30	6	24	6	24	25	5

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Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
118	881	200	868	213	810	271	178	903	610	471	230	851	417	664	317	764	364	711
119	108	0	108	0	104	4	63	45	92	16	41	67	81	27	82	26	81	27
120	190	0	190	0	187	3	60	130	158	32	76	114	131	59	131	59	113	77
121	183	79	189	73	180	82	0	262	94	168	31	231	15	247	0	262	30	231
122	46	88	47	87	47	87	0	134	16	118	0	134	10	124	1	133	2	133
123	117	0	117	0	99	18	64	53	75	42	50	67	86	31	61	56	87	30
124	255	0	255	0	160	95	135	120	201	54	49	206	156	99	99	156	132	123
125	143	0	143	0	135	8	73	70	135	8	127	16	126	17	135	8	81	62
126	294	0	292	2	182	112	83	211	181	113	76	218	135	159	101	193	151	143
127	56	0	38	18	13	43	5	51	8	48	16	40	7	49	7	49	7	49
128	92	1	87	6	63	30	18	75	59	34	48	45	39	54	51	42	39	54
129	109	4	110	3	89	24	52	61	79	34	51	62	73	40	77	36	49	64
130	108	11	100	19	73	46	2	117	42	77	25	94	52	67	52	67	13	100
131	219	5	199	25	95	129	70	154	87	137	51	173	82	142	89	135	87	131
132	24	12	36	0	3	33	2	34	3	33	2	34	2	34	2	34	3	33
133	5	0	5	0	1	4	1	4	5	0	1	4	3	2	3	2	3	2
134	10	3	12	1	0	13	0	13	0	13	3	10	0	13	0	13	3	10
135	45	5	50	0	43	7	12	38	43	7	19	31	32	18	16	34	34	16
136	62	0	62	0	59	3	0	62	62	0	0	62	58	4	0	62	22	40
137	53	0	53	0	11	42	3	50	39	14	7	46	9	44	6	47	33	20
138	90	0	90	0	88	2	24	66	88	2	33	57	71	19	48	42	83	7
139	7	1	8	0	8	0	3	5	6	2	3	5	3	5	8	0	3	5
140	84	3	83	4	79	8	24	63	77	10	42	45	68	19	52	35	65	22
141	9	0	9	0	9	0	9	0	9	0	9	0	9	0	9	0	9	0
142	161	12	171	2	147	26	81	92	148	25	84	89	99	74	121	52	99	74
143	168	10	160	18	149	29	85	93	155	23	85	93	97	81	123	55	105	73
144	93	1	94	0	94	0	39	55	69	25	56	38	54	40	62	32	42	52
145	67	0	67	0	67	0	33	34	52	15	48	19	33	34	52	15	38	29
146	54	0	54	0	54	0	50	4	54	0	54	0	50	4	54	0	50	4
147	298	22	298	22	259	61	125	195	190	130	186	134	153	167	192	128	145	173
148	238	2	237	3	173	67	53	187	178	62	45	195	62	178	116	124	60	180
149	536	0	536	0	499	37	412	124	466	70	366	170	289	247	313	223	477	59
150	195	0	176	19	141	54	56	139	127	68	44	151	72	123	43	152	113	82
151	48	50	90	8	41	57	0	98	89	9	82	16	2	96	2	96	20	78
152	19	8	17	10	0	27	0	27	1	26	0	27	12	15	0	27	2	25
153	52	0	52	0	52	0	15	37	52	0	11	41	52	0	52	0	52	0
154	384	14	398	0	378	20	209	189	375	23	185	213	304	94	267	131	308	90
155	701	9	692	18	586	124	469	241	629	81	338	372	344	366	551	159	368	342
156	137	0	137	0	115	22	86	51	132	5	60	77	72	65	79	58	75	62
157	120	4	112	12	95	29	90	34	113	11	62	62	80	44	67	57	65	59
158	93	0	85	8	81	12	78	15	93	0	50	43	54	39	53	40	54	39
159	385	14	383	16	204	195	146	253	299	100	98	301	147	252	148	251	112	281

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#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
160	12	8	20	0	6	14	9	11	14	6	7	13	5	15	6	14	6	14
161	15	0	15	0	11	4	11	4	11	4	6	9	11	4	4	11	10	5
162	15	0	15	0	11	4	6	9	11	4	3	12	11	4	11	4	10	5
163	1402	14	1387	29	1110	306	631	785	1127	289	460	956	780	636	706	710	1067	349
164	909	10	897	22	756	163	473	446	812	107	194	725	529	390	482	437	721	198
165	76	4	80	0	64	16	14	66	63	17	3	77	6	74	58	22	58	22
166	46	0	46	0	39	7	32	14	38	8	36	10	32	14	36	10	34	12
167	1401	0	1372	29	1097	304	624	777	1114	287	459	942	773	628	699	702	1066	338
168	314	0	314	0	267	47	220	94	279	35	133	181	190	124	183	131	186	128
169	193	0	193	0	121	72	106	87	123	70	79	114	102	91	60	133	79	114
170	454	0	445	9	331	123	224	230	280	174	272	182	191	263	146	308	259	198
171	255	0	249	6	143	112	70	185	93	162	49	206	61	194	49	206	51	204
172	314	0	301	13	225	89	238	76	210	104	125	189	191	123	200	114	197	117
173	261	0	247	14	159	102	178	83	154	107	54	207	118	143	125	136	131	130
174	106	2	107	1	42	66	68	40	41	67	20	88	36	72	35	73	43	65
175	553	13	562	4	360	206	226	340	221	345	170	396	217	349	209	357	195	371
176	640	88	686	42	426	302	373	355	441	287	217	511	391	337	328	400	389	338
177	24	20	44	0	40	4	36	8	36	8	16	28	16	28	16	28	16	28
178	537	1	538	0	446	92	243	295	439	99	99	439	213	325	248	290	162	370
179	98	0	98	0	73	25	44	54	73	25	44	54	65	33	50	48	44	54
180	645	1	633	13	569	77	288	358	533	113	106	540	314	332	258	388	215	431
181	206	2	201	7	178	30	142	66	178	30	5	203	164	44	154	54	154	54
182	835	3	796	42	633	205	219	619	581	257	166	672	433	405	345	493	267	571
183	1545	14	1508	51	1343	216	979	580	1291	268	243	1316	1189	370	1126	433	1033	520
184	51	0	45	6	50	1	16	35	31	20	4	47	20	31	13	38	12	39
185	356	2	334	24	296	62	133	225	275	83	102	256	201	157	178	180	129	229
186	19	0	15	4	13	6	13	6	13	6	8	11	13	6	13	6	12	7
187	32	0	18	14	5	27	7	25	9	23	1	31	1	31	9	23	2	30
188	145	0	145	0	134	11	77	68	121	24	71	74	94	51	94	51	77	68
189	523	2	516	9	467	58	300	225	428	97	62	463	293	232	298	227	188	337
190	9	0	9	0	9	0	2	7	9	0	5	4	9	0	9	0	9	0
191	19	0	19	0	19	0	5	14	17	2	6	13	9	10	19	0	6	13
192	331	17	346	2	264	84	203	145	322	26	117	231	181	167	143	205	138	210
193	113	0	113	0	113	0	53	60	113	0	26	87	71	42	20	93	20	93
194	357	0	349	8	245	112	270	87	305	52	115	242	183	174	129	228	138	219
195	36	0	36	0	34	2	34	2	36	0	20	16	34	2	16	20	10	26
196	12	24	36	0	33	3	31	5	36	0	22	14	31	5	35	1	25	11
197	294	0	294	0	197	97	92	202	197	97	18	276	66	228	80	214	83	211
198	62	0	62	0	45	17	39	23	45	17	32	30	39	23	35	27	32	30
199	89	0	89	0	88	1	27	62	57	32	23	66	32	57	34	55	32	57
200	22	0	22	0	22	0	17	5	21	1	1	21	21	1	18	4	18	4
201	189	0	189	0	135	54	140	49	137	52	55	134	112	77	74	115	51	138

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#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
202	99	0	99	0	87	12	69	30	91	8	34	65	52	47	30	69	29	70
203	34	0	34	0	32	2	32	2	34	0	18	16	32	2	15	19	10	24
204	932	0	929	3	853	79	325	607	675	257	105	827	296	636	310	622	238	694
205	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4	0	4
206	1	0	1	0	1	0	1	0	1	0	0	1	1	0	1	0	1	0
207	644	0	635	9	628	16	209	435	470	174	68	576	190	454	231	413	164	480
208	392	1	389	4	238	155	119	274	238	155	15	378	71	322	75	318	117	270
209	1541	0	1535	6	1495	46	496	1045	1160	381	123	1418	497	1044	629	912	438	1100
210	72	0	72	0	72	0	33	39	61	11	23	49	45	27	45	27	26	46
211	54	0	54	0	52	2	53	1	53	1	11	43	53	1	40	14	39	15
212	21	0	21	0	21	0	2	19	18	3	6	15	19	2	19	2	19	2
213	20	0	20	0	20	0	4	16	18	2	5	15	20	0	20	0	10	10
214	387	0	387	0	267	120	137	250	241	146	18	369	92	295	122	265	29	350
215	709	0	709	0	590	119	412	297	581	128	127	582	265	444	377	332	191	510
216	91	0	90	1	83	8	79	12	83	8	8	83	82	9	83	8	73	18
217	1332	12	1271	73	1124	220	589	755	1177	167	295	1049	506	838	853	491	226	1100
218	855	0	819	36	777	78	428	427	783	72	209	646	311	544	529	326	149	700
219	167	4	169	2	122	49	84	87	105	66	63	108	84	87	104	67	77	94
220	500	1	499	2	412	89	269	232	416	85	96	405	301	200	283	218	233	260
221	45	4	49	0	30	19	0	49	40	9	0	49	0	49	0	49	0	49
222	62	1	63	0	58	5	49	14	63	0	28	35	35	28	32	31	21	42
223	66	0	66	0	36	30	61	5	48	18	36	30	36	30	38	28	36	30
224	52	0	52	0	37	15	37	15	37	15	8	44	17	35	26	26	16	36
225	24	0	23	1	23	1	19	5	23	1	6	18	23	1	23	1	11	13
226	21	0	21	0	21	0	17	4	21	0	4	17	21	0	21	0	11	10
227	106	0	104	2	103	3	3	103	103	3	2	104	3	103	103	3	3	100
228	64	0	64	0	63	1	23	41	64	0	11	53	61	3	39	25	7	57
229	28	3	31	0	19	12	0	31	31	0	0	31	0	31	0	31	0	31
230	61	0	61	0	58	3	49	12	61	0	28	33	35	26	28	33	19	42
231	299	0	299	0	227	72	93	206	218	81	29	270	88	211	78	221	83	210
232	878	1	871	8	733	146	323	556	609	270	47	832	342	537	323	556	251	620
233	301	5	306	0	267	39	175	131	243	63	7	299	191	115	193	113	191	110
234	356	6	342	20	328	34	186	176	257	105	38	324	251	111	178	184	169	190
235	240	2	235	7	219	23	98	144	146	96	5	237	122	120	56	186	60	180
236	286	0	282	4	264	22	166	120	238	48	1	285	225	61	191	95	140	140
237	628	6	633	1	578	56	214	420	458	176	8	626	295	339	195	439	151	480
238	70	0	70	0	70	0	48	22	70	0	3	67	46	24	49	21	45	25
239	1361	12	1341	32	1251	122	511	862	1036	337	11	1362	717	656	552	821	397	970
240	468	2	438	32	430	40	290	180	416	54	22	448	287	183	243	227	219	250
241	46	0	46	0	42	4	36	10	46	0	20	26	24	22	24	22	24	22
242	83	0	79	4	51	32	48	35	63	20	37	46	43	40	47	36	46	37
243	70	0	70	0	53	17	28	42	53	17	9	61	28	42	16	54	31	39

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#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
244	59	0	53	6	41	18	25	34	41	18	3	56	40	19	33	26	33	26
245	16	0	16	0	16	0	12	4	16	0	0	16	16	0	16	0	16	0
246	23	0	23	0	23	0	18	5	23	0	0	23	23	0	23	0	23	0
247	24	0	24	0	24	0	24	0	24	0	4	20	24	0	24	0	24	0
248	1	0	1	0	1	0	0	1	1	0	0	1	0	1	0	1	0	1
249	27	0	27	0	27	0	18	9	27	0	0	27	19	8	8	19	8	19
250	84	0	80	4	52	32	51	33	64	20	37	47	44	40	47	37	48	36
251	114	4	114	4	68	50	84	34	92	26	54	64	88	30	56	62	29	89
252	138	32	150	20	91	79	99	71	103	67	59	111	100	70	73	97	22	148
253	17	20	33	4	23	14	20	17	28	9	23	14	28	9	17	20	18	19
254	877	16	886	7	852	41	617	276	854	39	391	502	676	217	643	250	519	374
255	291	3	294	0	290	4	271	23	290	4	66	228	287	7	290	4	255	39
256	456	163	611	8	528	91	429	190	528	91	212	407	451	168	397	222	189	430
257	395	2	397	0	359	38	341	56	365	32	123	274	244	153	155	242	141	256
258	9	0	9	0	9	0	1	8	9	0	1	8	1	8	1	8	1	8
259	330	0	305	25	150	180	141	189	183	147	67	263	90	240	149	181	109	223
260	144	2	146	0	114	32	114	32	115	31	43	103	63	83	50	96	42	104
261	44	10	54	0	54	0	22	32	53	1	1	53	48	6	54	0	0	54
262	346	3	345	4	276	73	90	259	164	185	130	219	213	136	73	276	85	264
263	15	0	15	0	14	1	4	11	4	11	4	11	11	4	4	11	4	11
264	187	4	191	0	182	9	57	134	68	123	83	108	131	60	64	127	75	110
265	199	0	199	0	177	22	70	129	59	140	81	118	131	68	65	134	87	111
266	498	3	500	1	470	31	191	310	207	294	147	354	161	340	90	411	140	363
267	180	3	181	2	163	20	35	148	44	139	31	152	40	143	15	168	29	154
268	30	0	30	0	7	23	7	23	18	12	18	12	15	15	7	23	11	19
269	95	0	91	4	64	31	28	67	49	46	33	62	55	40	20	75	24	71
270	15	0	15	0	14	1	4	11	4	11	4	11	11	4	4	11	4	11
271	227	0	224	3	216	11	75	152	85	142	100	127	161	66	73	154	89	138
272	117	0	116	1	113	4	55	62	55	62	55	62	71	46	33	84	47	70
273	703	2	689	16	650	55	247	458	264	441	207	498	256	449	146	559	206	499
274	23	0	23	0	23	0	7	16	7	16	6	17	7	16	1	22	6	17
275	23	0	23	0	20	3	3	20	2	21	1	22	2	21	2	21	3	20
276	153	0	151	2	134	19	86	67	143	10	51	102	62	91	55	98	72	81
277	166	0	163	3	151	15	93	73	92	74	93	73	98	68	108	58	103	63
278	31	0	27	4	30	1	14	17	12	19	11	20	13	18	14	17	14	17
279	1283	16	1278	21	1198	101	406	893	564	735	563	736	626	673	753	546	757	544
280	70	1	68	3	70	1	36	35	28	43	24	47	28	43	30	41	29	42
281	86	0	84	2	86	0	46	40	83	3	10	76	29	57	29	57	29	57
282	61	0	61	0	60	1	42	19	39	22	38	23	38	23	38	23	38	23
283	1	0	0	1	1	0	0	1	0	1	0	1	0	1	0	1	0	1
284	37	0	37	0	33	4	24	13	24	13	15	22	20	17	17	20	20	17
285	52	1	49	4	52	1	30	23	22	31	19	34	26	27	24	29	23	30

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#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
286	50	0	49	1	37	13	18	32	28	22	13	37	27	23	10	40	2	48
287	174	0	174	0	140	34	62	112	124	50	67	107	96	78	53	121	44	130
288	49	0	49	0	36	13	15	34	27	22	12	37	25	24	12	37	2	47
289	178	0	178	0	147	31	63	115	123	55	65	113	94	84	57	121	46	132
290	711	10	717	4	651	70	534	187	683	38	254	467	525	196	459	262	454	267
291	123	0	123	0	102	21	104	19	123	0	26	97	97	26	104	19	93	30
292	123	48	171	0	165	6	120	51	165	6	41	130	165	6	129	42	154	17
293	448	54	496	6	341	161	289	213	465	37	118	384	205	297	209	293	183	319
294	102	0	102	0	80	22	84	18	78	24	32	70	54	48	29	73	44	58
295	33	0	33	0	31	2	31	2	33	0	9	24	31	2	9	24	10	23
296	369	0	369	0	334	35	266	103	353	16	121	248	280	89	221	148	147	222
297	43	0	43	0	43	0	16	27	35	8	13	30	27	16	22	21	11	32
298	489	0	466	23	451	38	183	306	418	71	67	422	224	265	231	258	213	270
299	183	0	182	1	111	72	143	40	150	33	61	122	103	80	70	113	61	122
300	111	0	111	0	111	0	64	47	111	0	26	85	71	40	20	91	41	70
301	68	0	68	0	58	10	62	6	60	8	24	44	43	25	21	47	36	32
302	33	0	33	0	31	2	31	2	33	0	9	24	31	2	9	24	11	22
303	337	0	337	0	307	30	208	129	326	11	104	233	254	83	190	147	202	133
304	50	0	50	0	50	0	18	32	41	9	16	34	32	18	27	23	15	35
305	42	0	42	0	40	2	19	23	41	1	7	35	21	21	34	8	33	9
306	77	0	72	5	69	8	63	14	64	13	30	47	44	33	39	38	39	38
307	258	0	257	1	215	43	161	97	219	39	71	187	189	69	185	73	167	91
308	263	0	263	0	249	14	177	86	263	0	39	224	227	36	185	78	193	70
309	61	0	61	0	58	3	55	6	61	0	28	33	35	26	28	33	28	33
310	229	0	228	1	169	60	108	121	183	46	35	194	129	100	135	94	117	111
311	53	0	53	0	43	10	16	37	53	0	7	46	36	17	32	21	10	43
312	16	0	16	0	8	8	5	11	12	4	3	13	4	12	4	12	4	12
313	91	0	87	4	57	34	46	45	71	20	43	48	51	40	54	37	54	37
314	200	1	192	9	140	61	90	111	183	18	14	187	111	90	94	107	107	94
315	220	0	220	0	180	40	147	73	220	0	10	210	144	76	121	99	169	51
316	27	2	29	0	19	10	13	16	25	4	4	25	8	21	8	21	8	21
317	90	0	85	5	56	34	62	28	70	20	43	47	50	40	54	36	53	37
318	174	1	175	0	136	39	109	66	169	6	3	172	107	68	91	84	78	97
319	27	0	27	0	14	13	10	17	27	0	0	27	20	7	5	22	8	19
320	12	0	12	0	4	8	4	8	4	8	4	8	4	8	4	8	2	10
321	117	2	117	2	84	35	84	35	92	27	32	87	88	31	70	49	66	53
322	146	32	156	22	111	67	109	69	111	67	35	143	106	72	95	83	98	80
323	26	11	32	5	26	11	20	17	28	9	17	20	28	9	21	16	25	12
324	288	2	290	0	185	105	69	221	118	172	72	218	65	225	54	236	70	220
325	15	0	15	0	7	8	4	11	4	11	4	11	4	11	1	14	4	11
326	187	4	191	0	141	50	78	113	67	124	74	117	59	132	59	132	73	118
327	271	1	272	0	221	51	95	177	64	208	78	194	65	207	64	208	86	180

Continued on next page

Table 1.7 – continued from previous page

#	Rubi		MMA		Maple		Maxima		FriCAS		Sympy		Giac		Mupad		Reduce	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
328	481	3	481	3	431	53	206	278	205	279	151	333	58	426	96	388	127	357
329	57	0	56	1	50	7	21	36	20	37	16	41	13	44	11	46	17	40
330	190	0	186	4	116	74	42	148	74	116	22	168	43	147	33	157	41	149
331	15	0	15	0	7	8	4	11	4	11	0	15	4	11	1	14	1	14
332	166	0	160	6	120	46	57	109	52	114	25	141	39	127	32	134	46	120
333	177	0	176	1	148	29	69	108	56	121	37	140	59	118	56	121	62	119
334	414	3	415	2	352	65	170	247	177	240	51	366	51	366	79	338	120	297
335	69	1	68	2	61	9	16	54	28	42	9	61	16	54	12	58	16	54
336	361	0	359	2	342	19	268	93	350	11	98	263	261	100	239	122	74	287
337	242	0	231	11	205	37	154	88	147	95	82	160	127	115	128	114	145	97
338	50	0	49	1	49	1	30	20	17	33	10	40	17	33	17	33	16	34
339	537	0	534	3	508	29	269	268	261	276	144	393	177	360	177	360	177	360
340	78	1	76	3	78	1	35	44	17	62	15	64	17	62	17	62	17	62
341	179	0	175	4	157	22	149	30	159	20	60	119	90	89	98	81	54	123
342	49	0	49	0	48	1	41	8	28	21	23	26	27	22	26	23	27	22
343	1	0	1	0	1	0	0	1	0	1	0	1	0	1	0	1	0	1
344	27	0	27	0	23	4	25	2	21	6	11	16	20	7	14	13	14	13
345	49	1	49	1	49	1	33	17	17	33	15	35	17	33	17	33	17	33
346	34	0	32	2	26	8	11	23	17	17	0	34	0	34	5	29	0	34
347	189	0	189	0	153	36	62	127	129	60	49	140	45	144	51	138	45	144
348	28	0	27	1	14	14	10	18	15	13	1	27	0	28	5	23	1	27
349	179	0	179	0	104	75	61	118	123	56	35	144	46	133	49	130	46	133
350	311	0	300	11	188	123	140	171	258	53	196	115	136	175	203	108	149	162
351	206	12	190	28	154	64	120	98	190	28	118	100	60	158	60	158	60	158
352	74	0	72	2	64	10	42	32	73	1	33	41	54	20	47	27	38	36
353	136	0	134	2	118	18	57	79	126	10	51	85	72	64	34	102	56	80
354	135	1	136	0	104	32	34	102	34	102	51	85	34	102	34	102	56	80
355	233	0	226	7	199	34	74	159	185	48	128	105	51	182	153	80	75	158
356	14	0	12	2	14	0	6	8	6	8	6	8	3	11	6	8	6	8
357	196	0	193	3	152	44	127	69	104	92	45	151	16	180	71	125	19	177
358	355	65	355	65	244	176	17	403	112	308	82	338	12	408	12	408	31	389
359	304	17	319	2	308	13	297	24	308	13	263	58	296	25	289	32	263	58
360	163	0	163	0	159	4	151	12	163	0	144	19	163	0	151	12	157	6
361	1891	1109	2904	96	2974	26	2800	200	2997	3	2835	165	2628	372	2719	281	2728	272
362	1867	1133	2910	90	2970	30	2805	195	2996	4	2835	165	2639	361	2689	311	2722	272
363	1866	1134	2893	107	2974	26	2793	207	2999	1	2832	168	2604	396	2699	301	2738	263
364	842	493	1298	37	1331	4	1233	102	1335	0	1272	63	1157	178	1210	125	1233	102
365	8	7	11	4	15	0	2	13	14	1	2	13	0	15	1	14	0	15
366	1996	1158	2962	192	2630	524	1270	1884	2321	833	1124	2030	1315	1839	1501	1653	1142	2030
367	73	38	110	1	110	1	42	69	97	14	78	33	73	38	107	4	48	63

1.12 Timing

The command `AbsoluteTiming[]` was used in Mathematica to obtain the elapsed time for each integrate call. In Maple, the command `Usage` was used as in the following example

```
cpu_time := Usage(assign ('result_of_int',int(expr,x)),output='realtime')
```

For all other CAS systems, the elapsed time to complete each integral was found by taking the difference between the time after the call completed from the time before the call was made. This was done using Python's `time.time()` call.

All elapsed times shown are in seconds. A time limit of 3 CPU minutes was used for each integral. If the integrate command did not complete within this time limit, the integral was aborted and considered to have failed and assigned an F grade. The time used by failed integrals due to time out was not counted in the final statistics.

1.13 Verification

A verification phase was applied on the result of integration for `Rubi` and `Mathematica`.

Future version of this report will implement verification for the other CAS systems. For the integrals whose result was not run through a verification phase, it is assumed that the antiderivative was correct.

Verification phase also had 3 minutes time out. An integral whose result was not verified could still be correct, but further investigation is needed on those integrals. These integrals were marked in the summary table below and also in each integral separate section so they are easy to identify and locate.

1.14 Important notes about some of the results

Important note about Maxima results

Since tests were run in a batch mode, and using an automated script, then any integral where Maxima needed an interactive response from the user to answer a question during the evaluation of the integral will fail.

The exception raised is `ValueError`. Therefore Maxima results is lower than what would result if Maxima was run directly and each question was answered correctly.

The percentage of such failures were not counted for each test file, but for an example, for the `Timofeev` test file, there were about 14 such integrals out of total 705, or about 2 percent. This percentage can be higher or lower depending on the specific input test file.

Such integrals can be identified by looking at the output of the integration in each section for Maxima. The exception message will indicate the cause of error.

Maxima `integrate` was run using SageMath with the following settings set by default

```
'besselexpand : true'  
'display2d : false'  
'domain : complex'  
'keepfloat : true'  
'load(to_poly_solve)'  
'load(simplify_sum)'  
'load(abs_integrate)' 'load(diag)'
```

SageMath automatic loading of Maxima `abs_integrate` was found to cause some problems. So the following code was added to disable this effect.

```
from sage.interfaces.maxima_lib import maxima_lib  
maxima_lib.set('extra_definite_integration_methods', '[]')  
maxima_lib.set('extra_integration_methods', '[]')
```

See <https://ask.sagemath.org/question/43088/integrate-results-that-are-different-from-using-maxima/> for reference.

Important note about FriCAS result

There were few integrals which failed due to SageMath interface and not because FriCAS system could not do the integration.

These will fail With error `Exception raised: NotImplementedError`.

The number of such cases seems to be very small. About 1 or 2 percent of all integrals. These can be identified by looking at the exception message given in the result.

Important note about finding leaf size of antiderivative

For Mathematica, Rubi, and Maple, the builtin system function `LeafSize` was used to find the leaf size of each antiderivative.

The other CAS systems (SageMath and Sympy) do not have special builtin function for this purpose at this time. Therefore the leaf size for Fricas and Sympy antiderivative was determined using the following function, thanks to user `slelievre` at https://ask.sagemath.org/question/57123/could-we-have-a-leaf_count-function-in-base-sagemath/

```
def tree_size(expr):
    r"""
    Return the tree size of this expression.
    """
    if expr not in SR:
        # deal with lists, tuples, vectors
        return 1 + sum(tree_size(a) for a in expr)
    expr = SR(expr)
    x, aa = expr.operator(), expr.operands()
    if x is None:
        return 1
    else:
        return 1 + sum(tree_size(a) for a in aa)
```

For Sympy, which was called directly from Python, the following code was used to obtain the leafsize of its result

```
try:
    # 1.7 is a fudge factor since it is low side from actual leaf count
    leafCount = round(1.7*count_ops(anti))

except Exception as ee:
    leafCount = 1
```

Important note about Mupad results

Matlab's symbolic toolbox does not have a leaf count function to measure the size of the antiderivative. Maple was used to determine the leaf size of Mupad output by post processing Mupad result.

Currently no grading of the antiderivative for Mupad is implemented. If it can integrate the problem, it was assigned a B grade automatically as a placeholder. In the future, when grading function is implemented for Mupad, the tests will be rerun again.

The following is an example of using Matlab's symbolic toolbox (Mupad) to solve an integral

```
integrand = evalin(symengine, 'cos(x)*sin(x)')
the_variable = evalin(symengine, 'x')
anti = int(integrand, the_variable)
```

Which gives $\sin(x)^2/2$

1.15 Current tree layout of integration tests

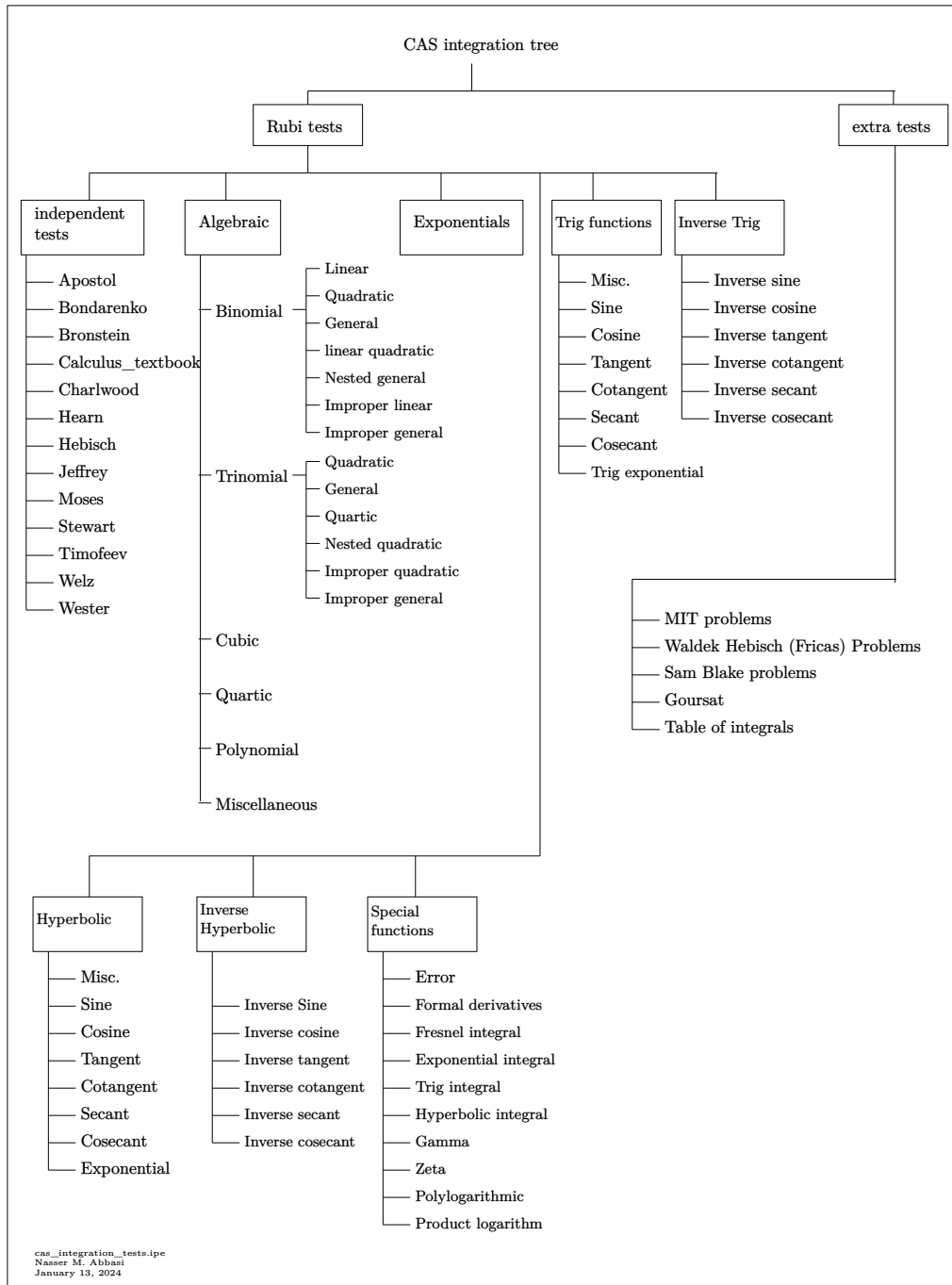
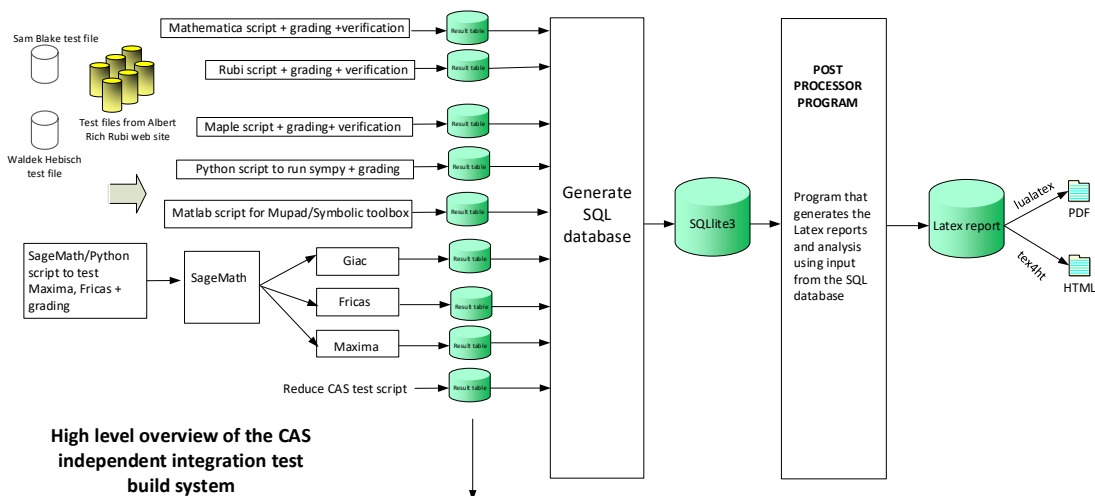


Figure 1.6: CAS integration tests tree

1.16 Design of the test system

The following diagram gives a high level view of the current test build system.



High level overview of the CAS independent integration test build system

One record (line) per one integral result. The line is CSV comma separated. This is description of each record

1. integer, the problem number.
2. integer. 0 for failed, 1 for passed, -1 for timeout, -2 for CAS specific exception. (this is not the grade field)
3. integer. Leaf size of result.
4. integer. Leaf size of the optimal antiderivative.
5. number. CPU time used to solve this integral. 0 if failed.
6. string. The integral in Latex format
7. string. The input used in CAS own syntax.
8. string. The result (antiderivative) produced by CAS in Latex format
9. string. The optimal antiderivative in Latex format.
10. integer. 0 or 1. Indicates if problem has known antiderivative or not
11. String. The result (antiderivative) in CAS own syntax.
12. String. The grade of the antiderivative. Can be "A", "B", "C", or "E"
13. String. Small string description of why the grade was given.
14. integer. 1 if result was verified or 0 if not verified. (For mma, rubi and maple only)

The following fields are present only in Rubi Table file

15. integer. Number of steps used.
16. integer. Number of rules used.
17. integer. Integrand leaf size.
18. real number. Ratio. Field 16 over field 17
19. String of form "{n,n,...}" which is list of the rules used by Rubi
20. String. The optimal antiderivative in Mathematica syntax

Nasser M. Abbasi
January 13, 2024
Design note

CHAPTER 2

INTEGRALS WHICH GENERATED AN EXCEPTION FOR EACH CAS

2.1	Fricas Exceptions	50
2.2	Maxima Exceptions	1220
2.3	Giac Exceptions	5642
2.4	Sympy Exceptions	8894

This chapter gives all problems which generated an exception F(-2) to makes it easier to investigate the cause of these exceptions. One subsection per CAS.

2.1 Fricas Exceptions

Percentage of integrals which generated an exception is 2.189 %

Fricas [F(-2)]

Exception generated.

$$\int \frac{\log(1+x)}{x\sqrt{1+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(log(1+x)/x/(1+(1+x)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/0_Independent_test_suites/2_Bondarenko_Problems

Test file number 2

Integral number in file 7

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+\sqrt{1+x}} \log(1+x)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(log(1+x)*(1+(1+x)^(1/2))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/0_Independent_test_suites/2_Bondarenko_Problems

Test file number 2

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int \frac{5x^2 + 3\sqrt[3]{e^x + x} + e^x(3x + 2x^2)}{x\sqrt[3]{e^x + x}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((5*x^2+3*(exp(x)+x)^(1/3)+exp(x)*(2*x^2+3*x))/x/(exp(x)+x)^(1/3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/3_Bronstein_Problems

Test file number 3

Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(1+x^{2n})\sqrt{-x^2+(1+x^{2n})^{\frac{1}{n}}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(1+x^(2*n))/(-x^2+(1+x^(2*n))^(1/n))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 329

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(x) \sin^3(x)} - 2 \sin(2x)}{-\sqrt{\cos^3(x) \sin(x)} + \sqrt{\tan(x)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-2*sin(2*x)+(cos(x)*sin(x)^3)^(1/2))/(-(cos(x)^3*sin(x))^(1/2)+tan(x)^(1/2)),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: not invertible
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 417

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x) \tan(x) \left(\sqrt[3]{1 - 3 \sec^2(x)} \sin^2(x) + 3 \tan^2(x) \right)}{(1 - 3 \sec^2(x))^{5/6} \left(1 - \sqrt{1 - 3 \sec^2(x)} \right)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(x)*((1-3*sec(x)^2)^(1/3)*sin(x)^2+3*tan(x)^2)/cos(x)^2/(1-3*sec(x)^2)^(5/6)/(1-(1-3*sec(x)^2)^(1/2)),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: Curv
e not irreducible after change of variable 0 -> infinity
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 446

Fricas [F(-2)]

Exception generated.

$$\int \frac{\cos\left(\frac{3x}{2}\right)}{\sqrt[4]{3^{3x}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(3/2*x)/(3^(3*x))^(1/4),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 543

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(1+x)\sqrt[3]{1-x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x/(1+x)/(-x^3+1)^(1/3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 38

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(1 - x + x^2) \sqrt[3]{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c*x^2+b*x+a)/(x^2-x+1)/(-x^3+1)^(1/3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt[3]{1 - x^2} (3 + x^2)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x+a)/(-x^2+1)^(1/3)/(x^2+3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 53

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(3 - x^2) \sqrt[3]{1 + x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x+a)/(-x^2+3)/(x^2+1)^(1/3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 54

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{1 - x^3}}{1 + x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-x^3+1)^(1/3)/(1+x),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 58

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{1-x^3}}{2+x} dx = \text{Exception raised: TypeError}$$

input `integrate((-x^3+1)^(1/3)/(2+x),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 60

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt[3]{2}x}{(2^{2/3} + x)\sqrt{1+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-2^(1/3)*x)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catdef: division by zero`

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{-1+x}{(1+x)\sqrt[3]{2+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((-1+x)/(1+x)/(x^3+2)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int (1-x)^{2014} x dx = \text{Exception raised: RecursionError}$$

input `integrate((1-x)^2014*x,x, algorithm="fricas")`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 177

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 178

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 179

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 180

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 181

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^7+a),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 228

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - bx^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-b*x^7+a),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 231

Fricas [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p x^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2))^p*x^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 505

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a+bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 506

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^n}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 508

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^n}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 509

Fricas [F(-2)]

Exception generated.

$$\int x(a + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 510

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 511

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 513

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 514

Fricas [F(-2)]

Exception generated.

$$\int x(a + bx^n)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 515

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 516

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 518

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{5/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 519

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 520

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 521

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 523

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 524

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 525

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 526

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 528

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 529

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 530

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 531

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 533

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 534

Fricas [F(-2)]

Exception generated.

$$\int x^m (a + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 591

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{a + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 592

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 593

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{(a+bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 594

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 595

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{3+2n}}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(3+2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 596

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{3+n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(3+n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 597

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{3-n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(3-n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 598

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{3-2n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(3-2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 599

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{m+2n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m+2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 600

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{m+n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m+n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 601

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{m-n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m-n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 602

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{m-2n}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m-2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 603

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{bnx^{-1+m+n}}{2(a+bx^n)^{3/2}} + \frac{mx^{-1+m}}{\sqrt{a+bx^n}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-1/2*b*n*x^(-1+m+n)/(a+b*x^n)^(3/2)+m*x^(-1+m)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 604

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1+\frac{n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1+1/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 608

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-1/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 609

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{3n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-3/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 610

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{5n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-5/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 611

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{7n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-7/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 612

Fricas [F(-2)]

Exception generated.

$$\int x^m (a + bx^{2+2m})^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*x^(2+2*m))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 613

Fricas [F(-2)]

Exception generated.

$$\int x^m (a + bx^{2+2m})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*x^(2+2*m))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 614

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{a + bx^{2+2m}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*x^(2+2*m))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 615

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a + bx^{2+2m}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^(2+2*m))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 616

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a + bx^{-2+m}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^(-2+m))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 622

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a + bx^{2-m}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^(2-m))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 623

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{6ax^2}{b(4+m)\sqrt{a + bx^{-2+m}}} + \frac{x^m}{\sqrt{a + bx^{-2+m}}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(6*a*x^2/b/(4+m)/(a+b*x^(-2+m))^(1/2)+x^m/(a+b*x^(-2+m))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 624

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{bnx^{-1+m+n}}{2(a+bx^n)^{3/2}} + \frac{mx^{-1+m}}{\sqrt{a+bx^n}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-1/2*b*n*x^(-1+m+n)/(a+b*x^n)^(3/2)+m*x^(-1+m)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 626

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt[3]{a+bx^{3(1+m)}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*x^(3+3*m))^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 627

Fricas [F(-2)]

Exception generated.

$$\int x^m \left(a + bx^{-\frac{3}{2}(1+m)} \right)^{2/3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b/(x^(3/2+3/2*m)))^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 628

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1+\frac{n}{3}}}{\sqrt[3]{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1+1/3*n)/(a+b*x^n)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 629

Fricas [F(-2)]

Exception generated.

$$\int x^{-1-\frac{2n}{3}}(a+bx^n)^{2/3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-2/3*n)*(a+b*x^n)^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 630

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1+\frac{n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1+1/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 680

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1-\frac{n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-1/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 681

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1-\frac{3n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-3/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 682

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1-\frac{5n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-5/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 683

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1-\frac{7n}{2}}}{\sqrt{a+bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-7/2*n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 684

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m (c(a + bx^n)^3)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*(a+b*x^n)^3)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g

Test file number 49

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m (c(a + bx^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*(a+b*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g

Test file number 49

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \left(\frac{c}{a + bx^n} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c/(a+b*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g

Test file number 49

Integral number in file 68

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{c + dx^n}}{(a + bx^n)^{15/4}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)^(1/4)/(a+b*x^n)^(15/4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/50_1.1.3.3_a

Test file number 50

Integral number in file 1

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[5]{a + bx^5} (c + dx^5)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*x^5+a)^(1/5)/(d*x^5+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 1

Fricas [F(-2)]

Exception generated.

$$\int (a - bx^n)^{3/2} (a + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-b*x^n)^(3/2)*(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 64

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a - bx^n} \sqrt{a + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((a-b*x^n)^(1/2)*(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n} (c + dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(c+d*x^n)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n}(c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(c+d*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^2}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)^2/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx^n}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^2}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)^2/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx^n}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \sqrt[3]{a + bx^n}(c + dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/3)*(c+d*x^n)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \sqrt[3]{a + bx^n}(c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/3)*(c+d*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^2}{\sqrt[3]{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)^2/(a+b*x^n)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx^n}{\sqrt[3]{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)/(a+b*x^n)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^2}{(a + bx^n)^{4/3}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)^2/(a+b*x^n)^(4/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx^n}{(a + bx^n)^{4/3}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^n)/(a+b*x^n)^(4/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx^3}}{x^2 (a + bx^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^3+c)^(1/2)/x^2/(b*x^3+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 539

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx^3}}{x^3(a+bx^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^3+c)^(1/2)/x^3/(b*x^3+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 540

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx^6)\sqrt{c+dx^6}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^6)\sqrt{c + dx^6}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt[5]{c + dx^5}(ac + 2adx^5)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(d*x^5+c)^(1/5)/(2*a*d*x^5+a*c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 211

Fricas [F(-2)]

Exception generated.

$$\int (1 + b\sqrt{x})^p (1 + d\sqrt{x})^q x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1+b*x^(1/2))^p*(1+d*x^(1/2))^q*x^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 250

Fricas [F(-2)]

Exception generated.

$$\int (1 + b\sqrt{x})^p (1 + d\sqrt{x})^q (ex)^m dx = \text{Exception raised: TypeError}$$

input `integrate((1+b*x^(1/2))^p*(1+d*x^(1/2))^q*(e*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 251

Fricas [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p (c + d\sqrt{x})^q x^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2))^p*(c+d*x^(1/2))^q*x^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 252

Fricas [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p (c + d\sqrt{x})^q (ex)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2))^p*(c+d*x^(1/2))^q*(e*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 253

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + bx^n} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 330

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + bx^n} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 331

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n}(A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 332

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 334

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 335

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 336

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 337

Fricas [F(-2)]

Exception generated.

$$\int x(a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 338

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 339

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 341

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 342

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 343

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + bx^n)^{5/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*x^n)^(5/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 344

Fricas [F(-2)]

Exception generated.

$$\int x(a + bx^n)^{5/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n)^(5/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 345

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n)^{5/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 346

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{5/2} (A + Bx^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)*(A+B*x^n)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 348

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{5/2} (A + Bx^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)*(A+B*x^n)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 349

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{5/2} (A + Bx^n)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(5/2)*(A+B*x^n)/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 350

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx^n)}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 351

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^n)}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 352

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 353

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^2 \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^2/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 355

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^3 \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^3/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 356

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^4 \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^4/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 357

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx^n)}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 358

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^n)}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 359

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 360

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^2 (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^2/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 362

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^3 (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^3/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 363

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^4 (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^4/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 364

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx^n)}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 365

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^n)}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 366

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 367

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^2 (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^2/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 369

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^3 (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^3/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 370

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^4 (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/x^4/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 371

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{3/2} \sqrt{a+bx^n} (A+Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 372

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{ex} \sqrt{a+bx^n} (A+Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 373

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{\sqrt{ex}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/(e*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 374

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{(ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/(e*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 375

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n}(A + Bx^n)}{(ex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(1/2)*(A+B*x^n)/(e*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 376

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{3/2} (a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 377

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{ex}(a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 378

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{\sqrt{ex}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/(e*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 379

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{(ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/(e*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 380

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^{3/2} (A + Bx^n)}{(ex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^(3/2)*(A+B*x^n)/(e*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 381

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (A + Bx^n)}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 382

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(A + Bx^n)}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 383

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{\sqrt{ex}\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(1/2)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 384

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{3/2}\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(3/2)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 385

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{5/2} \sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(5/2)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 386

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (A + Bx^n)}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 387

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(A + Bx^n)}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 388

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{\sqrt{ex}(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(1/2)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 389

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{3/2} (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(3/2)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 390

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{5/2} (a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(5/2)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 391

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (A + Bx^n)}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 392

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(A + Bx^n)}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 393

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{\sqrt{ex} (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(1/2)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 394

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{3/2} (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(3/2)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 395

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{(ex)^{5/2} (a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n)/(e*x)^(5/2)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 396

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m (a + bx^n)^{3/2} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a+b*x^n)^(3/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 410

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{a + bx^n} (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a+b*x^n)^(1/2)*(A+B*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 411

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m (A + Bx^n)}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(A+B*x^n)/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 412

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m (A + Bx^n)}{(a + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(A+B*x^n)/(a+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 413

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m (A + Bx^n)}{(a + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(A+B*x^n)/(a+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 414

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{3n}}{\sqrt{a+bx^n}(c+dx^n)(e+fx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(3*n)/(a+b*x^n)^(1/2)/(c+d*x^n)/(e+f*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{4n}}{\sqrt{a+bx^n}(c+dx^n)(e+fx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(4*n)/(a+b*x^n)^(1/2)/(c+d*x^n)/(e+f*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 66

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m (d + ex^n + fx^{2n} + gx^{3n})}{\sqrt{a + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d+e*x^n+f*x^(2*n)+g*x^(3*n))/(a+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 29

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + x^3}{(1 - x^4) \sqrt[4]{1 + x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)/(-x^4+1)/(x^4+1)^(1/4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 34

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{\sqrt{a + bx^n}(e + fx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n+C*x^(2*n))/(a+b*x^n)^(1/2)/(e+f*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/67_1.1.3.9

Test file number 67

Integral number in file 4

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(1+x)\sqrt[6]{1+x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+x)/(x^2+1)^(1/6),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 391

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + \frac{b}{c + dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 314

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{c + dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 315

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{c+dx^n}}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 317

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{c+dx^n}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 318

Fricas [F(-2)]

Exception generated.

$$\int x \left(a + \frac{b}{c + dx^n} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 319

Fricas [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{c + dx^n} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 320

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx^n}\right)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 322

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx^n}\right)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 323

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + \frac{b}{c+dx^n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 324

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{c+dx^n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 325

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{a + \frac{b}{c+dx^n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 327

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + \frac{b}{c+dx^n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b/(c+d*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 328

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{b}{c+dx^n}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 329

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{c+dx^n}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 330

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \left(a + \frac{b}{c+dx^n}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 332

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(a + \frac{b}{c+dx^n}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b/(c+d*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 333

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+3n} (a + b(c + dx^n)^{3/2})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+3*n)*(a+b*(c+d*x^n)^(3/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 363

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+2n} (a + b(c + dx^n)^{3/2})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+2*n)*(a+b*(c+d*x^n)^(3/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 364

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+n} (a + b(c + dx^n)^{3/2})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+n)*(a+b*(c+d*x^n)^(3/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 365

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b(c + dx^n)^{3/2})^p}{ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c+d*x^n)^(3/2))^p/e/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 366

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-n} (a + b(c + dx^n)^{3/2})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-n)*(a+b*(c+d*x^n)^(3/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 367

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-2n} (a + b(c + dx^n)^{3/2})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-2*n)*(a+b*(c+d*x^n)^(3/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 368

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+3n} \left(a + b\sqrt{c + dx^n} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+3*n)*(a+b*(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 369

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+2n} \left(a + b\sqrt{c + dx^n} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+2*n)*(a+b*(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 370

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+n} (a + b\sqrt{c + dx^n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+n)*(a+b*(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 371

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b\sqrt{c + dx^n})^p}{ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c+d*x^n)^(1/2))^p/e/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 372

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-n} (a + b\sqrt{c + dx^n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-n)*(a+b*(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 373

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-2n} (a + b\sqrt{c + dx^n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-2*n)*(a+b*(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 374

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+3n} \left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+3*n)*(a+b/(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 375

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+2n} \left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+2*n)*(a+b/(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 376

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1+n} \left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1+n)*(a+b/(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 377

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p}{ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c+d*x^n)^(1/2))^p/e/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 378

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-n} \left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-n)*(a+b/(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 379

Fricas [F(-2)]

Exception generated.

$$\int (ex)^{-1-2n} \left(a + \frac{b}{\sqrt{c+dx^n}} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(-1-2*n)*(a+b/(c+d*x^n)^(1/2))^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 380

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\frac{x^n}{1+x^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^n/(1+x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int (ax^n + bx^{1+n})^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^n+b*x^(1+n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int (ax^n + bx^{1+n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{ax^n + bx^{1+n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ax^n + bx^{1+n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^n + bx^{1+n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^n + bx^{1+n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^n+b*x^(1+n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/79_1.1.6.1

Test file number 79

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m (ax^n + bx^{1+n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/80_1.1.6.2

Test file number 80

Integral number in file 441

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{ax^n + bx^{1+n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/80_1.1.6.2

Test file number 80

Integral number in file 442

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{ax^n + bx^{1+n}}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/80_1.1.6.2

Test file number 80

Integral number in file 443

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(ax^n + bx^{1+n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/80_1.1.6.2

Test file number 80

Integral number in file 444

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(ax^n + bx^{1+n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^n+b*x^(1+n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/80_1.1.6.2

Test file number 80

Integral number in file 445

Fricas [F(-2)]

Exception generated.

$$\int (ex)^m (c + dx) (ax^n + bx^{1+n})^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)*(a*x^n+b*x^(1+n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 370

Fricas [F(-2)]

Exception generated.

$$\int (ex)^m (c + dx) (ax^n + bx^{1+n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)*(a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 371

Fricas [F(-2)]

Exception generated.

$$\int (ex)^m (c + dx) \sqrt{ax^n + bx^{1+n}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)*(a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 372

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (c + dx)}{\sqrt{ax^n + bx^{1+n}}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)/(a*x^n+b*x^(1+n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 373

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m(c+dx)}{(ax^n+bx^{1+n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)/(a*x^n+b*x^(1+n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 374

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m(c+dx)}{(ax^n+bx^{1+n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(d*x+c)/(a*x^n+b*x^(1+n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/82_1.1.6.4

Test file number 82

Integral number in file 375

Fricas [F(-2)]

Exception generated.

$$\int x^{-1-\frac{j}{2}} \sqrt{ax^j + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-1/2*j)*(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 343

Fricas [F(-2)]

Exception generated.

$$\int (cx)^{-1-\frac{j}{2}} \sqrt{ax^j + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-1/2*j)*(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 344

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^3 + bx^n}}{(cx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^3+b*x^n)^(1/2)/(c*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 345

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^n}}{c^2x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^2+b*x^n)^(1/2)/c^2/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 346

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^n}}{(cx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+b*x^n)^(1/2)/(c*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 347

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{a}{x} + bx^n}}{\sqrt{cx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a/x+b*x^n)^(1/2)/(c*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 349

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\frac{a}{x^2} + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((a/x^2+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 350

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{cx} \sqrt{\frac{a}{x^3} + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(1/2)*(a/x^3+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 351

Fricas [F(-2)]

Exception generated.

$$\int (cx)^{-1-\frac{3j}{2}} (ax^j + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1-3/2*j)*(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 352

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ax^3 + bx^n)^{3/2}}{(cx)^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^3+b*x^n)^(3/2)/(c*x)^(11/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 353

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^n)^{3/2}}{c^4 x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^2+b*x^n)^(3/2)/c^4/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 354

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^n)^{3/2}}{(cx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+b*x^n)^(3/2)/(c*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 355

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{cx} \left(\frac{a}{x} + bx^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(1/2)*(a/x+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 357

Fricas [F(-2)]

Exception generated.

$$\int c^2 x^2 \left(\frac{a}{x^2} + bx^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(c^2*x^2*(a/x^2+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 358

Fricas [F(-2)]

Exception generated.

$$\int (cx)^{7/2} \left(\frac{a}{x^3} + bx^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(7/2)*(a/x^3+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 359

Fricas [F(-2)]

Exception generated.

$$\int c^5 x^5 \left(\frac{a}{x^4} + bx^n \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(c^5*x^5*(a/x^4+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 360

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1+\frac{j}{2}}}{\sqrt{ax^j + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1+1/2*j)/(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 369

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx}}{\sqrt{ax^3 + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(1/2)/(a*x^3+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 370

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ax^2 + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^2+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 371

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{cx}\sqrt{ax + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x)^(1/2)/(a*x+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 372

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{3/2} \sqrt{\frac{a}{x} + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x)^(3/2)/(a/x+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 374

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{c^2 x^2 \sqrt{\frac{a}{x^2} + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/c^2/x^2/(a/x^2+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 375

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{5/2} \sqrt{\frac{a}{x^3} + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x)^(5/2)/(a/x^3+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 376

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{-1+\frac{3j}{2}}}{(ax^j + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(-1+3/2*j)/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 377

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^{7/2}}{(ax^3 + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(7/2)/(a*x^3+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 378

Fricas [F(-2)]

Exception generated.

$$\int \frac{c^2 x^2}{(ax^2 + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(c^2*x^2/(a*x^2+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 379

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx}}{(ax + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(1/2)/(a*x+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 380

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{5/2} \left(\frac{a}{x} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x)^(5/2)/(a/x+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 382

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{c^4 x^4 \left(\frac{a}{x^2} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/c^4/x^4/(a/x^2+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 383

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{11/2} \left(\frac{a}{x^3} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x)^(11/2)/(a/x^3+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 384

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{c^7 x^7 \left(\frac{a}{x^4} + bx^n\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/c^7/x^7/(a/x^4+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 385

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x^n (a + bx^{2-n})}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^n*(a+b*x^(2-n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 394

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x(bx + ax^{-1+n})}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x*(b*x+a*x^(-1+n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 396

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x^n(a - bx^{2-n})}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^n*(a-b*x^(2-n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 397

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x(-bx + ax^{-1+n})}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x*(-b*x+a*x^(-1+n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 399

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m (ax^j + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 400

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{ax^j + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 401

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{ax^j + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 402

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(ax^j + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 403

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(ax^j + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x^j+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 404

Fricas [F(-2)]

Exception generated.

$$\int (ax^j + bx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 405

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{ax^j + bx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 406

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ax^j + bx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^j+b*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 407

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^j + bx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^j+b*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 408

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^j + bx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^j+b*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 409

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2) \sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n + cx^{2n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n+c*x^(2*n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m (a + b\sqrt{x} + cx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*x^(1/2)+c*x)^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m (a^2 + 2ac\sqrt{x} + c^2x)^p dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a^2+2*a*c*x^(1/2)+c^2*x)^p,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int (a + b\sqrt[3]{x} + cx^{2/3})^p (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^p*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int (a^2 + 2ab\sqrt[3]{x} + b^2x^{2/3})^p (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a^2+2*a*b*x^(1/3)+b^2*x^(2/3))^p*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 212

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 213

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 214

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 215

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n + cx^{2n}}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 217

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^n + cx^{2n}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 218

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 219

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 220

Fricas [F(-2)]

Exception generated.

$$\int x(a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 221

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 222

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n + cx^{2n})^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 224

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n + cx^{2n})^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 225

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 226

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 227

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 228

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 229

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 231

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 232

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 233

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 234

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 235

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 236

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 238

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 239

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m (a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 245

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 246

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 247

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 248

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^n) \sqrt{a + bx^n + cx^{2n}} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)*(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^n) (a + bx^n + cx^{2n})^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)*(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^n}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^n}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^n}{(a + bx^n + cx^{2n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+e*x^n)/(a+b*x^n+c*x^(2*n))^(5/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code:  inte
grate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^{3/2} (A + Bx^n + Cx^{2n}) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*x^n+c*x^(2*n))^(3/2)*(A+B*x^n+C*x^(2*n)),x, algorithm="fric
as")
```

output

```
Exception raised: TypeError >> Error detected within library code:  inte
grate: implementation incomplete (has polynomial part)
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 23

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + bx^n + cx^{2n}}(A + Bx^n + Cx^{2n}) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^(1/2)*(A+B*x^n+C*x^(2*n)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 24

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{\sqrt{a + bx^n + cx^{2n}}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*x^n+C*x^(2*n))/(a+b*x^n+c*x^(2*n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 25

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(a + bx^n + cx^{2n})^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*x^n+C*x^(2*n))/(a+b*x^n+c*x^(2*n))^(3/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 26

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(a + bx^n + cx^{2n})^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*x^n+C*x^(2*n))/(a+b*x^n+c*x^(2*n))^(5/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 27

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^{-1+\frac{q}{2}}}{\sqrt{bx^n + cx^{2n-q} + ax^q}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1+1/2*q)/(b*x^n+c*x^(2*n-q)+a*x^q)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.6_Improper_general_trinomial/140_1.2.6.2

Test file number 140

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{27a^3 + 27a^2bx^2 + 27a^2cx^3 + 9ab^2x^4 + b^3x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b^3*x^6+9*a*b^2*x^4+27*a^2*c*x^3+27*a^2*b*x^2+27*a^3),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2+3*x)/(2^(2/3)-x)/(-x^3-1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + x}{(c + dx)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)+x)/(d*x+c)/(-x^3-1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 193

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + x}{(c + dx)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)+x)/(d*x+c)/(-x^3-1)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 197

Fricas [F(-2)]

Exception generated.

$$\int \frac{c - dx}{(c + dx)\sqrt[3]{2c^3 + d^3x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((-d*x+c)/(d*x+c)/(d^3*x^3+2*c^3)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 218

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{dx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{dx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{dx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^n}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^n}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int x(dx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int (dx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 171

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 172

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^n)^(3/2)/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1
Test file number 149
Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1
Test file number 149
Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 175

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 176

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 178

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 179

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 180

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 181

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 182

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 184

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 185

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 186

Fricas [F(-2)]

Exception generated.

$$\int x^m(dx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 187

Fricas [F(-2)]

Exception generated.

$$\int x^m\sqrt{dx^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 188

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 189

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{(dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 190

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m (dx^n)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 191

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m (dx^n)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 192

Fricas [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{dx^n} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 193

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{dx^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(d*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 194

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(dx^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(d*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1
Test file number 149
Integral number in file 195

Fricas [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{(dx^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(d*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1
Test file number 149
Integral number in file 196

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^{2n}}}{\sqrt{1+x^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^(2*n))^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 510

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^n}}{\sqrt{1+x^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^n)^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 511

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^{n/2}}}{\sqrt{1+x^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^(1/2*n))^(1/2)/(1+x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 512

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{\sqrt{ax^{2n}}}{\sqrt{1+x^n}} + \frac{2x^{-n}\sqrt{ax^{2n}}}{(2+n)\sqrt{1+x^n}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^(2*n))^(1/2)/(1+x^n)^(1/2)+2*(a*x^(2*n))^(1/2)/(2+n)/(x^n)/(1+x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 513

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + b(cx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*(c*x)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + b\sqrt{cx}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*(c*x)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{(cx)^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + b(cx^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*(c*x^3)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + b\sqrt{cx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b*(c*x^3)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx^3}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x^3)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{(cx^3)^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x^3)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 79

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \left(\frac{c}{x}\right)^{3/2}} (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c/x)^(3/2))^(1/2)*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sqrt{\frac{c}{x}}} (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c/x)^(1/2))^(1/2)*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{\sqrt{\frac{c}{x}}}} (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c/x)^(1/2))^(1/2)*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{\left(\frac{c}{x}\right)^{3/2}}} (dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(c/x)^(3/2))^(1/2)*(d*x)^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{\sqrt{a + b \left(\frac{c}{x}\right)^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b*(c/x)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{\sqrt{a + b\sqrt{\frac{c}{x}}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b*(c/x)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{\sqrt{a + \frac{b}{\sqrt{\frac{c}{x}}}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b/(c/x)^(1/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{(dx)^m}{\sqrt{a + \frac{b}{(\frac{c}{x})^{3/2}}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m/(a+b/(c/x)^(3/2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt{\frac{d}{x} + \frac{c}{x}}} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(d/x)^(1/2)+c/x)^(1/2)*x^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{a + b\sqrt{\frac{d}{x} + \frac{c}{x}}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a+b*(d/x)^(1/2)+c/x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{ac + bcx^3 + d\sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*c+b*c*x^3+d*(b*x^3+a)^(1/2)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: Not integrable (provided residues have no relations)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{f+gx}}}\right)^n}{df + (ef + dg)x + egx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*F^(c*(e*x+d)^(1/2)/(g*x+f)^(1/2)))^n/(d*f+(d*g+e*f)*x+e*g*x^2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1 ogextint: unimplemented`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 466

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(a + bF^{\frac{c\sqrt{d+ex}}{\sqrt{df-efx}}}\right)^n}{d^2 - e^2x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*F^(c*(e*x+d)^(1/2)/(-e*f*x+d*f)^(1/2)))^n/(-e^2*x^2+d^2),x,
algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: alg1
ogextint: unimplemented`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 472

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + e^x}{\sqrt{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+exp(x))/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 655

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{f^x}(a + bx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((f^x)^(1/2)*(b*x+a)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 659

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{e^x + x}} + \frac{e^x}{\sqrt{e^x + x}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(1/(exp(x)+x)^(1/2)+exp(x)/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 667

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{(1+e^x)x}{\sqrt{e^x+x}} + 2\sqrt{e^x+x} \right) dx = \text{Exception raised: TypeError}$$

input `integrate((1+exp(x))*x/(exp(x)+x)^(1/2)+2*(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 668

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sqrt{e^x+x}} + \frac{e^x x}{\sqrt{e^x+x}} + 2\sqrt{e^x+x} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/(exp(x)+x)^(1/2)+exp(x)*x/(exp(x)+x)^(1/2)+2*(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 669

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1 + e^x)x}{\sqrt{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+exp(x))*x/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 670

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sqrt{e^x + x}} + \frac{e^x x}{\sqrt{e^x + x}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/(exp(x)+x)^(1/2)+exp(x)*x/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 671

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^x x}{\sqrt{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(x)*x/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 672

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2(5e^x + 3x^2)}{5\sqrt{5e^x + x^3}} + \frac{4}{5}x\sqrt{5e^x + x^3} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(1/5*x^2*(5*exp(x)+3*x^2)/(5*exp(x)+x^3)^(1/2)+4/5*x*(5*exp(x)+x^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 673

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^x x^2}{\sqrt{5e^x + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(x)*x^2/(5*exp(x)+x^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 674

Fricas [F(-2)]

Exception generated.

$$\int -\frac{1 + e^x}{\sqrt[3]{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate(-(1+exp(x))/(exp(x)+x)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 675

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{1}{\sqrt[3]{e^x + x}} + \frac{x}{\sqrt[3]{e^x + x}} - (e^x + x)^{2/3} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-1/(exp(x)+x)^(1/3)+x/(exp(x)+x)^(1/3)-(exp(x)+x)^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 676

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt[3]{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(exp(x)+x)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 677

Fricas [F(-2)]

Exception generated.

$$\int \frac{5x + e^x(3 + 2x)}{\sqrt[3]{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate((5*x+exp(x)*(3+2*x))/(exp(x)+x)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 678

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{2x}{\sqrt[3]{e^x + x}} + \frac{2e^x x}{\sqrt[3]{e^x + x}} + 3(e^x + x)^{2/3} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(2*x/(exp(x)+x)^(1/3)+2*exp(x)*x/(exp(x)+x)^(1/3)+3*(exp(x)+x)^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 679

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(exp(x)+x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 682

Fricas [F(-2)]

Exception generated.

$$\int \frac{5x^2 + 3\sqrt[3]{e^x + x} + e^x(3x + 2x^2)}{x\sqrt[3]{e^x + x}} dx = \text{Exception raised: TypeError}$$

input `integrate((5*x^2+3*(exp(x)+x)^(1/3)+exp(x)*(2*x^2+3*x))/x/(exp(x)+x)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 697

Fricas [F(-2)]

Exception generated.

$$\int \left(d + e(F^{c(a+bx)})^n \right)^{5/2} (f + gx) dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*(F^((b*x+a)*c))^n)^(5/2)*(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 45

Fricas [F(-2)]

Exception generated.

$$\int \left(d + e(F^{c(a+bx)})^n \right)^{3/2} (f + gx) dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*(F^((b*x+a)*c))^n)^(3/2)*(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{d + e(F^{c(a+bx)})^n} (f + gx) dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*(F^((b*x+a)*c))^n)^(1/2)*(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 47

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{\sqrt{d + e(F^{c(a+bx)})^n}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(d+e*(F^((b*x+a)*c))^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 48

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + e(F^{c(a+bx)})^n)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(d+e*(F^((b*x+a)*c))^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 49

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + e(F^{c(a+bx)})^n)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(d+e*(F^((b*x+a)*c))^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + e(F^{c(a+bx)})^n)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(d+e*(F^((b*x+a)*c))^n)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/2_Exponentials/157_2.2

Test file number 157

Integral number in file 51

Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/(x^p)+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))*x^m,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/(x^p))+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))*x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 66

Fricas [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/a/(x^p))+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{sech}^{-1}(ax^p)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/(x^p)+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))/x^2,x, algo
rithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 69

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{sech}^{-1}(ax^p)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/(x^p)+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))/x^3,x, algo
rithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\log(ax^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-log(a*x^2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 263

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\log\left(\frac{a}{x^2}\right)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-log(a/x^2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 264

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-log(a*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 265

Fricas [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{\sqrt{a+b\log(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(log(x)/(a+b*log(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 301

Fricas [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{\sqrt{a - b \log(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(log(x)/(a-b*log(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 302

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + B \log(x)}{\sqrt{a + b \log(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*log(x))/(a+b*log(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 303

Fricas [F(-2)]

Exception generated.

$$\int \frac{A + B \log(x)}{\sqrt{a - b \log(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*log(x))/(a-b*log(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 304

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\log(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\log(ax^n)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\log(ax^n)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int x^3 \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int x^2 \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int x \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x*log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{3}{2}}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{\log^{\frac{3}{2}}(ax^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{\log^{\frac{3}{2}}(ax^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(log(a*x^n)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{\log(ax^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/log(a*x^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \log^{\frac{3}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/log(a*x^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \log^{\frac{5}{2}}(ax^n)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/log(a*x^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int (d + ex) \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)*(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int (d + ex)^3 \sqrt{a + b \log(cx^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3*(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))^(1/2)/(e*x+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))^(1/2)/(e*x+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(cx^n)}}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))^(1/2)/(e*x+d)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^{5/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^r)^(5/2)*(a+b*log(c*x^n))/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 431

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^{3/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^r)^(3/2)*(a+b*log(c*x^n))/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 432

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^r}(a+b\log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^r)^(1/2)*(a+b*log(c*x^n))/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 433

Fricas [F(-2)]

Exception generated.

$$\int \frac{a+b\log(cx^n)}{x\sqrt{d+ex^r}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 434

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^r)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 435

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^r)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 436

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^r)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*x^n))/x/(d+e*x^r)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 437

Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{5}{2}}(c(d + ex)) dx = \text{Exception raised: TypeError}$$

input `integrate(log(c*(e*x+d))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \log^{\frac{3}{2}}(c(d+ex)) dx = \text{Exception raised: TypeError}$$

input `integrate(log(c*(e*x+d))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\log(c(d+ex))} dx = \text{Exception raised: TypeError}$$

input `integrate(log(c*(e*x+d))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\log(c(d+ex))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(c*(e*x+d))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{3}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(c*(e*x+d))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{5}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(c*(e*x+d))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\log^{\frac{7}{2}}(c(d+ex))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/log(c*(e*x+d))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 24

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 25

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 26

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 27

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 28

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 29

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 30

Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(3/2)/(g*x+f)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log (c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log (c(d + ex)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{(f + gx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(5/2)/(g*x+f)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(g*x+f)/(a+b*log(c*(e*x+d)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{f + gx} \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{\sqrt{f + gx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d + ex)^n)}}{(f + gx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^(1/2)/(g*x+f)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}}{\sqrt{a + b \log(c(d + ex)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^(1/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{f+gx}\sqrt{a+b\log(cx^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(g*x+f)^(1/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(f+gx)^{3/2}\sqrt{a+b\log(cx^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(g*x+f)^(3/2)/(a+b*log(c*(e*x+d)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^m)^n))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 430

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^m)^n))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 431

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(c(d(e + fx)^m)^n)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^m)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 432

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d(e + fx)^m)^n)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 433

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 434

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 435

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^m)^n))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^m)^n))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 436

Fricas [F(-2)]

Exception generated.

$$\int (g + hx)^2 \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 479

Fricas [F(-2)]

Exception generated.

$$\int (g + hx) \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 480

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 481

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{g + hx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 482

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 483

Fricas [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 484

Fricas [F(-2)]

Exception generated.

$$\int (g + hx) (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 485

Fricas [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^p)^q))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 486

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^{3/2}}{g + hx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2)/(h*x+g),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 487

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^{3/2}}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(3/2)/(h*x+g)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 488

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 489

Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 490

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 491

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)\sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 492

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 493

Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 494

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 495

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 496

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^2/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 497

Fricas [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 498

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 499

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)(a + b \log(c(d(e + fx)^p)^q))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(h*x+g)/(a+b*log(c*(d*(f*x+e)^p)^q))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 500

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{g + hx} \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 519

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{\sqrt{g + hx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 520

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \log(c(d(e + fx)^p)^q)}}{(g + hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^(1/2)/(h*x+g)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 521

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g+hx}}{\sqrt{a+b \log(c(d(ex)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^(1/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 522

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{g+hx} \sqrt{a+b \log(c(d(ex)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(h*x+g)^(1/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 523

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(g + hx)^{3/2} \sqrt{a + b \log(c(d(e + fx)^p)^q)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(h*x+g)^(3/2)/(a+b*log(c*(d*(f*x+e)^p)^q))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 524

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{5/2} (a + b \sin(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*cos(d*x+c))^(5/2)/(a+b*sin(d*x+c))^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd ef: division by zero`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 589

Fricas [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{11/2}}{(a + b \sin(c + dx))^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(11/2)/(a+b*sin(d*x+c))^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 604

Fricas [F(-2)]

Exception generated.

$$\int (c \sin^m(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*sin(b*x+a)^m)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 22

Fricas [F(-2)]

Exception generated.

$$\int (c \sin^m(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*sin(b*x+a)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 23

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c \sin^m(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*sin(b*x+a)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 24

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c \sin^m(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*sin(b*x+a)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 25

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c \sin^m(a + bx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*sin(b*x+a)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 26

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c \sin^m(a + bx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*sin(b*x+a)^m)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 27

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \sin^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-b*sin(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*sin(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{\sqrt{a + b \sin^3(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)/(a+b*sin(x)^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Complex(Integer))), failed) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Complex(Int`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 485

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sin^{\frac{3}{2}}(e + fx)} + x\sqrt{\sin(e + fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sin(f*x+e)^(3/2)+x*sin(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sin^{\frac{3}{2}}(e + fx)} + x^2\sqrt{\sin(e + fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/sin(f*x+e)^(3/2)+x^2*sin(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 68

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sin^{\frac{7}{2}}(e + fx)} + \frac{3}{5}x\sqrt{\sin(e + fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sin(f*x+e)^(7/2)+3/5*x*sin(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{3}{2}}(e + fx)} - \frac{1}{3}x\sqrt{\csc(e + fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csc(f*x+e)^(3/2)-1/3*x*csc(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\csc^{\frac{3}{2}}(e+fx)} - \frac{1}{3}x^2\sqrt{\csc(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/csc(f*x+e)^(3/2)-1/3*x^2*csc(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{5}{2}}(e+fx)} - \frac{3x}{5\sqrt{\csc(e+fx)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csc(f*x+e)^(5/2)-3/5*x/csc(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\csc^{\frac{7}{2}}(e+fx)} - \frac{5}{21}x\sqrt{\csc(e+fx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csc(f*x+e)^(7/2)-5/21*x*csc(f*x+e)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*sin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(d*x+c))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(c + dx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(d*x+c))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(c + dx)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(d*x+c))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + a \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + a \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int x(a + a \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + a \sin(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(d*x+c))^(1/3)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int (c \cos^m(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*cos(b*x+a)^m)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 58

Fricas [F(-2)]

Exception generated.

$$\int (c \cos^m(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*cos(b*x+a)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 59

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c \cos^m(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*cos(b*x+a)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 60

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c \cos^m(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*cos(b*x+a)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 61

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c \cos^m(a + bx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*cos(b*x+a)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 62

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c \cos^m(a + bx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*cos(b*x+a)^m)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 63

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cos(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(a + bx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int x \cos^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(a + bx)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{x}{3\sqrt{\cos(a+bx)}} + x \cos^{\frac{3}{2}}(a+bx) \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-1/3*x/cos(b*x+a)^(1/2)+x*cos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(x)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(x)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\cos(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/cos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\cos(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/cos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\cos^{\frac{3}{2}}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/cos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \cos^{\frac{3}{2}}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/cos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cos^{\frac{3}{2}}(a+bx)} + x\sqrt{\cos(a+bx)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cos(b*x+a)^(3/2)+x*cos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cos^{\frac{3}{2}}(x)} + x\sqrt{\cos(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cos(x)^(3/2)+x*cos(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cos^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cos(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cos(x)^(7/2)+3/5*x*cos(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\cos^{\frac{3}{2}}(x)} + x^2\sqrt{\cos(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/cos(x)^(3/2)+x^2*cos(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{3}{2}}(x)} - \frac{1}{3}x\sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sec(x)^(3/2)-1/3*x*sec(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\sec(x)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sec(x)^(5/2)-3/5*x/sec(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sec^{\frac{7}{2}}(x)} - \frac{5}{21}x\sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sec(x)^(7/2)-5/21*x*sec(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sec^{\frac{3}{2}}(x)} - \frac{1}{3}x^2\sqrt{\sec(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/sec(x)^(3/2)-1/3*x^2*sec(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cos(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cos(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+a\cos(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cos(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+a\cos(c+dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(d*x+c))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cos(c + dx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(d*x+c))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cos(c + dx)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(d*x+c))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+a\cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+a\cos(x)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cos(x)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cos(x)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a-a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a-a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a - a\cos(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a-a*cos(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a\cos(x)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*cos(x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \cos(x)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*cos(x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \cos(x)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*cos(x))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + a \cos(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + a \cos(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int x(a + a \cos(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cos(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cos(x))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cos(x))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cos(x))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(x))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + a \cos(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cos(d*x+c))^(1/3)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 184

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cos^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-b*cos(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*cos(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 28

Fricas [F(-2)]

Exception generated.

$$\int \frac{\tan(x)}{\sqrt{a + b \cos^3(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(x)/(a+b*cos(x)^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Complex(Integer))), failed) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Complex(Int`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/211_4.2.7.2

Test file number 211

Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int (b \tan^p(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c)^p)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int (b \tan^p(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c)^p)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 47

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \tan^p(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c)^p)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 48

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \tan^p(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(d*x+c)^p)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 49

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^p(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(d*x+c)^p)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^p(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(d*x+c)^p)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 51

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{3/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sec(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 613

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e))^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 619

Fricas [F(-2)]

Exception generated.

$$\int \sqrt[3]{\tan(c+dx)} \sqrt{a+ia \tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd
ef: division by zero`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 250

Fricas [F(-2)]

Exception generated.

$$\int (b \tan^n(e+fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(f*x+e)^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 19

Fricas [F(-2)]

Exception generated.

$$\int (b \tan^n(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(f*x+e)^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 20

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \tan^n(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(f*x+e)^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \tan^n(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(f*x+e)^n)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 22

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^n(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(f*x+e)^n)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 23

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tan^n(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tan(f*x+e)^n)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 24

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)} \sqrt{c + c \sin(e + fx)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a - a \sin(e + fx)} (c + c \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a - a \sin(e + fx)} (c + c \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a - a \sin(e + fx)} (c + c \sin(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}(c + c \sin(e + fx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}(c + c \sin(e + fx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}(c + c \sin(e + fx))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)*(c+c*sin(f*x+e))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 \sqrt{a - a \sin(e + fx)}}{\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)^3*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 \sqrt{a - a \sin(e + fx)}}{\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((h*x+g)^2*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{(g + hx) \sqrt{a - a \sin(e + fx)}}{\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((h*x+g)*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - a \sin(e + fx)}}{(g + hx)\sqrt{c + c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a-a*sin(f*x+e))^(1/2)/(h*x+g)/(c+c*sin(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a - a \sin(e + fx)}}{(c + c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a-a*sin(f*x+e))^(1/2)/(c+c*sin(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\csc(x)}(x \cos(x) - 4 \sec(x) \tan(x)) dx = \text{Exception raised: TypeError}$$

input `integrate(csc(x)^(1/2)*(x*cos(x)-4*sec(x)*tan(x)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 808

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^4}{b\sqrt{x^3 + 3 \sin(a + bx)}} + \frac{x^2 \cos(a + bx)}{\sqrt{x^3 + 3 \sin(a + bx)}} + \frac{4x\sqrt{x^3 + 3 \sin(a + bx)}}{3b} \right) dx$$

= Exception raised: TypeError

input `integrate(x^4/b/(x^3+3*sin(b*x+a))^(1/2)+x^2*cos(b*x+a)/(x^3+3*sin(b*x+a))^(1/2)+4/3*x*(x^3+3*sin(b*x+a))^(1/2)/b,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 874

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \cos(a + bx)}{\sqrt{x^3 + 3 \sin(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*cos(b*x+a)/(x^3+3*sin(b*x+a))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 875

Fricas [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \sqrt{\sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^3*sin(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \sin^2(a + bx) \sqrt{\sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^2*sin(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \sin(a + bx) \sqrt{\sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)*sin(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\cos(c + dx)} \sin^3(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*sin(b*x+a)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 221

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\cos(c + dx)} \sin^2(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*sin(b*x+a)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 222

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\cos(c + dx)} \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 223

Fricas [F(-2)]

Exception generated.

$$\int \cos^3(a + bx) \sqrt{\cos(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^3*cos(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 353

Fricas [F(-2)]

Exception generated.

$$\int \cos^2(a + bx) \sqrt{\cos(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^2*cos(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 354

Fricas [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sqrt{\cos(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)*cos(d*x+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 355

Fricas [F(-2)]

Exception generated.

$$\int x \cos^{\frac{5}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)^(5/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 328

Fricas [F(-2)]

Exception generated.

$$\int x \cos^{\frac{3}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)^(3/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 329

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cos(a + bx)} \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)^(1/2)*sin(b*x+a),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 330

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\sqrt{\cos(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/cos(b*x+a)^(1/2),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 331

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/cos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 332

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/cos(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 333

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/cos(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 334

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\cos^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/cos(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 335

Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{9}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sec(b*x+a)^(9/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 336

Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{7}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sec(b*x+a)^(7/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 337

Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{5}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sec(b*x+a)^(5/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 338

Fricas [F(-2)]

Exception generated.

$$\int x \sec^{\frac{3}{2}}(a + bx) \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sec(b*x+a)^(3/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 339

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\sec(a + bx)} \sin(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sec(b*x+a)^(1/2)*sin(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 340

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\sqrt{\sec(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/sec(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 341

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\sec^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/sec(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 342

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sin(a + bx)}{\sec^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(b*x+a)/sec(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 343

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sin^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*sin(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 344

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sin^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*sin(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 345

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sqrt{\sin(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*sin(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 346

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sqrt{\sin(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/sin(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 347

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/sin(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 348

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/sin(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 349

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/sin(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 350

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sin^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/sin(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 351

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{9}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*csc(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 352

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{7}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*csc(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 353

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*csc(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 354

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \csc^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*csc(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 355

Fricas [F(-2)]

Exception generated.

$$\int x \cos(a + bx) \sqrt{\csc(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)*csc(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 356

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\sqrt{\csc(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/csc(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 357

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\csc^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/csc(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 358

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cos(a + bx)}{\csc^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cos(b*x+a)/csc(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 359

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\sin(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 53

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\sin(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 54

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\sin(a + b \log(cx^n))}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 56

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\sin(a + b \log(cx^n))}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 57

Fricas [F(-2)]

Exception generated.

$$\int x \sin^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 58

Fricas [F(-2)]

Exception generated.

$$\int \sin^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 59

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sin^{\frac{3}{2}}(a + b \log(cx^n))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 61

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sin^{\frac{3}{2}}(a + b \log(cx^n))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*log(c*x^n))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 62

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sin(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sin(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 63

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sin^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sin(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sin^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sin(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int (ex)^m \sin^{\frac{3}{2}}(d(a + b \log(cx^n))) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*sin(d*(a+b*log(c*x^n)))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int (ex)^m \sqrt{\sin(d(a + b \log(cx^n)))} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*sin(d*(a+b*log(c*x^n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sqrt{\sin(d(a + b \log(cx^n)))}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sin^{\frac{3}{2}}(d(a+b\log(cx^n)))} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{\sin^{\frac{5}{2}}(d(a+b\log(cx^n)))} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m/sin(d*(a+b*log(c*x^n)))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\cos(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \cos^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \cos^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cos(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int x^m \cos^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\cos(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\cos(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/cos(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\cos^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/cos(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\cos^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/cos(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\sec(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 266

Fricas [F(-2)]

Exception generated.

$$\int \sec^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 268

Fricas [F(-2)]

Exception generated.

$$\int \sec^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 270

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sec(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 272

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 274

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 276

Fricas [F(-2)]

Exception generated.

$$\int x^m \sec^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*sec(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 281

Fricas [F(-2)]

Exception generated.

$$\int x^m \sec^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 282

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\sec(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 283

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\sec(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/sec(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 284

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sec^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/sec(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 285

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\csc(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 308

Fricas [F(-2)]

Exception generated.

$$\int \csc^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 310

Fricas [F(-2)]

Exception generated.

$$\int \csc^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 312

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\csc(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 314

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\csc^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 316

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\csc^{\frac{5}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 318

Fricas [F(-2)]

Exception generated.

$$\int x^m \csc^{\frac{5}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*csc(a+b*log(c*x^n))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 323

Fricas [F(-2)]

Exception generated.

$$\int x^m \csc^{\frac{3}{2}}(a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 324

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\csc(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 325

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\csc(a + b \log(cx^n))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/csc(a+b*log(c*x^n))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 326

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\csc^{\frac{3}{2}}(a + b \log(cx^n))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/csc(a+b*log(c*x^n))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 327

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 34

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+b\arcsin(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 35

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a+b\arcsin(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 36

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 37

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 38

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 39

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 40

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 41

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 42

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1
Test file number 262
Integral number in file 43

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1
Test file number 262
Integral number in file 44

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 45

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 47

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 48

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 49

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)\sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1
Test file number 262
Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1
Test file number 262
Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + b \arcsin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 146

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + b \arcsin(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsin(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int x^m (a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*arcsin(c*x^n)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 254

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x^n)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 255

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x^n)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 256

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate(a+b*arcsin(c*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 257

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x^n))/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 258

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x^n))/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 259

Fricas [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x^n))/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 260

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 292

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 293

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 294

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 295

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 296

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 297

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 298

Fricas [F(-2)]

Exception generated.

$$\int (a - b \arcsin(1 - dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 299

Fricas [F(-2)]

Exception generated.

$$\int (a - b \arcsin(1 - dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 300

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a - b \arcsin(1 - dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 301

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \arcsin(1 - dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 302

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 303

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 304

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - b \arcsin(1 - dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(d*x^2-1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 305

Fricas [F(-2)]

Exception generated.

$$\int \arcsin(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 313

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1

Test file number 263

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1
Test file number 263
Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1
Test file number 263
Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1

Test file number 263

Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1

Test file number 263

Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1
Test file number 263
Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1
Test file number 263
Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsin(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+b\arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a+b\arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2
Test file number 264
Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 146

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsin(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 170

Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 171

Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 172

Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/(-c^2*d*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{(d - c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/(-c^2*d*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/(-c^2*d*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{(d - c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/(-c^2*d*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d - c^2 dx^2) \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d - c^2 dx^2)^2 \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d - c^2 dx^2)(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d - c^2 dx^2)^2 (a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{5/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 182

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 183

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 184

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 185

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 186

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 187

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arcsin(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3
Test file number 265
Integral number in file 188

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 189

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 190

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 191

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 192

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 193

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 194

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 195

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 196

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 197

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 198

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 199

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 387

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 388

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 389

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 390

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 391

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x^2(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 392

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 393

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 394

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 395

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 396

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 397

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x^2(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/x^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 398

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arcsin(x)}} + \frac{x \arcsin(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-3/8*x/(-x^2+1)/arcsin(x)^(1/2)+x*arcsin(x)^(3/2)/(-x^2+1)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 399

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arcsin(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arcsin(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4
Test file number 266
Integral number in file 400

Fricas [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2
Test file number 269
Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 17

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 18

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 19

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 20

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \arccos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-b*arccos(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 64

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 65

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 66

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 68

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 69

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 71

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 72

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 73

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(-1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(d*x^2-1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int \arccos (ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1
Test file number 270
Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 79

Fricas [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccos(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x)^m/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 175

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 176

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 177

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 178

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 179

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 180

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 181

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 182

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 183

Fricas [F(-2)]

Exception generated.

$$\int x(a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 184

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 185

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 186

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 187

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 188

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 189

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 190

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+b\arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 191

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+b\arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 192

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 193

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 194

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 195

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 196

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 197

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 198

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 199

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 200

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 201

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arccos(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2
Test file number 271
Integral number in file 202

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 433

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 434

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 435

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 436

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 437

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 438

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 439

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 440

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 441

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 442

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arccos(x)}} + \frac{x \arccos(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(-3/8*x/(-x^2+1)/arccos(x)^(1/2)+x*arccos(x)^(3/2)/(-x^2+1)^2,x,
algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 443

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 444

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 445

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 446

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 447

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 448

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 449

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 450

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 451

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 452

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 453

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 454

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 455

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 456

Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arccos\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(3/2)*arccos(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 457

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arccos\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arccos(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 458

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 460

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 461

Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arccos\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(3/2)*arccos(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 462

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arccos\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arccos(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 463

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arccos\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 465

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 466

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 467

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 468

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 469

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 470

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 471

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 472

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{5/2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 473

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 474

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 475

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 477

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arccos(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 478

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 479

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 480

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 482

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arccos(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 483

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 688

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 689

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 690

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 691

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 692

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 693

Fricas [F(-2)]

Exception generated.

$$\int (a + b \arccos(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 694

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 695

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 696

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 697

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 698

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 699

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 700

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccos(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 701

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 702

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 703

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 704

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccos(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 705

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 41

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 42

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 43

Fricas [F(-2)]

Exception generated.

$$\int x \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2
Test file number 277
Integral number in file 44

Fricas [F(-2)]

Exception generated.

$$\int \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2
Test file number 277
Integral number in file 45

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 47

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 48

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 49

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2
Test file number 277
Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2
Test file number 277
Integral number in file 51

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2
Test file number 277
Integral number in file 52

Fricas [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + b \arctan(cx^3)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2*(a+b*arctan(c*x^3)),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/278_5.3.3
Test file number 278
Integral number in file 28

Fricas [F(-2)]

Exception generated.

$$\int (d + ex) (a + b \arctan(cx^3)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)*(a+b*arctan(c*x^3)),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/278_5.3.3

Test file number 278

Integral number in file 29

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 686

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 687

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 688

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 690

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 691

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 692

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 694

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 695

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 696

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 698

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 699

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 700

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2 cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 702

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 703

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 704

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 705

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 707

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 708

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 709

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 710

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 711

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 713

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 714

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 715

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 716

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 717

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 718

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 719

Fricas [F(-2)]

Exception generated.

$$\int x^2\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 721

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 722

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2}\sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 723

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 725

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 726

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 727

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 729

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 730

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 731

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 733

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 734

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 735

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 736

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 737

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 738

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 739

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 740

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 742

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 743

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 744

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 745

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 746

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 747

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 749

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 750

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 751

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 752

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 753

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 754

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 756

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 757

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 758

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 759

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 760

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 762

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 763

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 764

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^2 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 765

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^2 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 766

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 768

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 769

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 770

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 771

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^3 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 772

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 774

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 775

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 776

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 778

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 779

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3 (c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 780

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4 (c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 781

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 783

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 784

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 785

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 786

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 787

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 789

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 790

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 791

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 792

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 793

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 794

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 795

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 797

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 798

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 799

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 800

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 802

Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 803

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 804

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 805

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 807

Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 808

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 809

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 810

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 812

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 813

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 814

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 815

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 816

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 817

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 818

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 819

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 821

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 822

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 823

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 824

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 825

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 826

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 828

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 829

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 830

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 831

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 832

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 833

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 834

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 835

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 837

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 838

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 839

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 840

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 841

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 843

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 844

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 845

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^2 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 846

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^2 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 847

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 849

Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 850

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 851

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 852

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^3 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 853

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 855

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 856

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 857

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 859

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 860

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3 (c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 861

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4 (c + a^2cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 862

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 864

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 865

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 866

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 867

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 868

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{5/2}}{(c+a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 870

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 871

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 872

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 873

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 874

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 875

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 876

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 878

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 879

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 880

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 881

Fricas [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 883

Fricas [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 884

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 885

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 886

Fricas [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 888

Fricas [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 889

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 890

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 891

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 893

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 894

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 895

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 896

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 897

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 898

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 899

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 900

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 902

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 903

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 904

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 905

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 907

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 908

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 909

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 910

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 911

Fricas [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 912

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 914

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 915

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 916

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 918

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 919

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 920

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 922

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 923

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 924

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 926

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 928

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+a^2cx^2)^2\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 930

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 931

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 932

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 933

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 934

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 936

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 937

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 938

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 939

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 940

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 941

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 942

Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 944

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 945

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 946

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 948

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 949

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 950

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 952

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 953

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 954

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 956

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 957

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 958

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 960

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 961

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 962

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 963

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 965

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 966

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 967

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 968

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 969

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 970

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c+a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 972

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2 cx^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 973

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2 cx^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 974

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 976

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 977

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 978

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 980

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 981

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 982

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 984

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 986

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 988

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 989

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 990

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 991

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 992

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 993

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 994

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 995

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 996

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 998

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 999

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1000

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1001

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1002

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1003

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1004

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1005

Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1007

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1008

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1009

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1011

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1012

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1013

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1015

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1016

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1017

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1019

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1020

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1021

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{c+a^2cx^2}\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1022

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1024

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1025

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1026

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1027

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1028

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1029

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1030

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1031

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1033

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1034

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1035

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1036

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1037

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1038

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1039

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1040

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1042

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1043

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + a^2 cx^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1044

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1046

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1047

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1048

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1050

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1051

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1052

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1054

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 1056

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+a^2cx^2)^2\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4
Test file number 279
Integral number in file 1058

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1059

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1060

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1061

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1062

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1063

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1064

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1065

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1067

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1068

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1069

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1070

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1071

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1072

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1073

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1074

Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1076

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1077

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1078

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1080

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1081

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1082

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1084

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1085

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1086

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1088

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1089

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1090

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{c+a^2cx^2}\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1091

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1093

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1094

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1095

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1096

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1097

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1098

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1099

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1100

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1102

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1103

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1104

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1105

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1106

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1107

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1108

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1109

Fricas [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\arctan(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2*arctan(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5

Test file number 280

Integral number in file 31

Fricas [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\cot^{-1}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2*arccot(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sec^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsec(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/286_5.5

Test file number 286

Integral number in file 17

Fricas [F(-2)]

Exception generated.

$$\int \sec^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arcsec(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/286_5.5

Test file number 286

Integral number in file 42

Fricas [F(-2)]

Exception generated.

$$\int \frac{\csc^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccsc(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/288_5.6

Test file number 288

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int \csc^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arccsc(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/288_5.6

Test file number 288

Integral number in file 40

Fricas [F(-2)]

Exception generated.

$$\int x \cosh^{\frac{5}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)^(5/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 286

Fricas [F(-2)]

Exception generated.

$$\int x \cosh^{\frac{3}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)^(3/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 287

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\cosh(a + bx)} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)^(1/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 288

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\sqrt{\cosh(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 289

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 290

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 291

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 292

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\cosh^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/cosh(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 293

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{9}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sech(b*x+a)^(9/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 294

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{7}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sech(b*x+a)^(7/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 295

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{5}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sech(b*x+a)^(5/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 296

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{sech}^{\frac{3}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sech(b*x+a)^(3/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 297

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\operatorname{sech}(a + bx)} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*sech(b*x+a)^(1/2)*sinh(b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 298

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\sqrt{\operatorname{sech}(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/sech(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 299

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\operatorname{sech}^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/sech(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 300

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \sinh(a + bx)}{\operatorname{sech}^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*sinh(b*x+a)/sech(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 301

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sinh^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 302

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sinh^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 303

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sqrt{\sinh(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 304

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sqrt{\sinh(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 305

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 306

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 307

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{7}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 308

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sinh^{\frac{9}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/sinh(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 309

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{9}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*csch(b*x+a)^(9/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 310

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{7}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*csch(b*x+a)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 311

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*csch(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 312

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \operatorname{csch}^{\frac{3}{2}}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*csch(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 313

Fricas [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sqrt{\operatorname{csch}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)*csch(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 314

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\sqrt{\operatorname{csch}(a + bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/csch(b*x+a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 315

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\operatorname{csch}^{\frac{3}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/csch(b*x+a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 316

Fricas [F(-2)]

Exception generated.

$$\int \frac{x \cosh(a + bx)}{\operatorname{csch}^{\frac{5}{2}}(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*cosh(b*x+a)/csch(b*x+a)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 317

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{csch}(x)}(x \cosh(x) - 4\operatorname{sech}(x) \tanh(x)) dx = \text{Exception raised: TypeError}$$

input `integrate(csch(x)^(1/2)*(x*cosh(x)-4*sech(x)*tanh(x)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 706

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sinh^{\frac{3}{2}}(x)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(x)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 67

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sinh^{\frac{3}{2}}(x)} - x\sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sinh(x)^(3/2)-x*sinh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 68

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\sinh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sinh(x)^(7/2)+3/5*x*sinh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sinh^{\frac{3}{2}}(x)} - x^2 \sqrt{\sinh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/sinh(x)^(3/2)-x^2*sinh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 71

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x \sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(3/2)+1/3*x*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{5}{2}}(x)} + \frac{3x}{5\sqrt{\operatorname{csch}(x)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(5/2)+3/5*x/csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{7}{2}}(x)} - \frac{5}{21}x\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(7/2)-5/21*x*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x^2\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/csch(x)^(3/2)+1/3*x^2*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int x^4\sqrt{a+ia\sinh(e+fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1
Test file number 293
Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1
Test file number 293
Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + ia \sinh(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+I*a*sinh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \sinh(e + fx)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1
Test file number 293
Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1
Test file number 293
Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int x(a + ia \sinh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+I*a*sinh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(e + fx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(e + fx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int x(a + ia \sinh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+I*a*sinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(d*x+c))^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(d*x+c))^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + ia \sinh(c + dx))^{5/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(d*x+c))^(5/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + ia \sinh(e + fx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*sinh(f*x+e))^(1/3)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sinh^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*sinh(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/297_6.1.7.1

Test file number 297

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{\sqrt{a + b \sinh^3(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)/(a+b*sinh(x)^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Integer)),failed) cannot be coerced to mode SparseUnivariatePolynomial(Expression(Integer))`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 486

Fricas [F(-2)]

Exception generated.

$$\int \frac{\cosh^{\frac{3}{2}}(x)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(x)^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 70

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{3}{2}}(x)} + x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cosh(x)^(3/2)+x*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 71

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cosh(x)^(7/2)+3/5*x*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 73

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\cosh^{\frac{3}{2}}(x)} + x^2\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/cosh(x)^(3/2)+x^2*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3}x\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(3/2)-1/3*x*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\operatorname{sech}(x)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(5/2)-3/5*x/sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{7}{2}}(x)} - \frac{5}{21} x \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(7/2)-5/21*x*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3} x^2 \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/sech(x)^(3/2)-1/3*x^2*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(c + dx)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + a \cosh(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + a \cosh(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a+a\cosh(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cosh(x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+a\cosh(x)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(x)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \cosh(x)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(1/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int x^3(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int x(a + a \cosh(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+a*cosh(x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1
Test file number 299
Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + a \cosh(x))^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(x))^(3/2)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{a + a \cosh(c + dx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(1/3)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{3}{2}}(x)} + x \sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cosh(x)^(3/2)+x*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 330

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\cosh^{\frac{7}{2}}(x)} + \frac{3}{5}x\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/cosh(x)^(7/2)+3/5*x*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 332

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\cosh^{\frac{3}{2}}(x)} + x^2\sqrt{\cosh(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/cosh(x)^(3/2)+x^2*cosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 333

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*cosh(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1

Test file number 304

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cosh^5(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-b*cosh(x)^5),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1

Test file number 304

Integral number in file 28

Fricas [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b \cosh^3(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)/(a+b*cosh(x)^3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: failed of mode Union(SparseUnivariatePolynomial(Expression(Integer)),failed) c cannot be coerced to mode SparseUnivariatePolynomial(Expression(Integer))`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 39

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)(b \tanh(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(b*tanh(f*x+e))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)(b \tanh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 17

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)\sqrt{b \tanh(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 18

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 19

Fricas [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(b \tanh(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 20

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^2 (b \tanh(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 21

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^2 \sqrt{b \tanh(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 22

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 23

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(b \tanh(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 24

Fricas [F(-2)]

Exception generated.

$$\int \frac{(b \tanh(e + fx))^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(f*x+e))^(3/2)/(d*x+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 25

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b \tanh(e + fx)}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(f*x+e))^(1/2)/(d*x+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 26

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + dx)\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 27

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + dx)(b \tanh(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)/(b*tanh(f*x+e))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 28

Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 51

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{b \coth^m(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 52

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \coth^m(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^m)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 53

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^m)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 54

Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c + dx))^{4/3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^m)^(4/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 55

Fricas [F(-2)]

Exception generated.

$$\int (b \coth^m(c + dx))^{2/3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^m)^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 56

Fricas [F(-2)]

Exception generated.

$$\int \sqrt[3]{b \coth^m(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^m)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 57

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{b \coth^m(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^m)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 58

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^m)^(2/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 59

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^m(c + dx))^{4/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^m)^(4/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 60

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3}x\sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(3/2)-1/3*x*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/312_6.5.1

Test file number 312

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{5}{2}}(x)} - \frac{3x}{5\sqrt{\operatorname{sech}(x)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(5/2)-3/5*x/sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/312_6.5.1

Test file number 312

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{sech}^{\frac{7}{2}}(x)} - \frac{5}{21} x \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(x)^(7/2)-5/21*x*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/312_6.5.1

Test file number 312

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{sech}^{\frac{3}{2}}(x)} - \frac{1}{3} x^2 \sqrt{\operatorname{sech}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/sech(x)^(3/2)-1/3*x^2*sech(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/312_6.5.1

Test file number 312

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3}x\sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(3/2)+1/3*x*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/316_6.6.1

Test file number 316

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{5}{2}}(x)} + \frac{3x}{5\sqrt{\operatorname{csch}(x)}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(5/2)+3/5*x/csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/316_6.6.1

Test file number 316

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x}{\operatorname{csch}^{\frac{7}{2}}(x)} - \frac{5}{21} x \sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(x)^(7/2)-5/21*x*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/316_6.6.1

Test file number 316

Integral number in file 15

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\operatorname{csch}^{\frac{3}{2}}(x)} + \frac{1}{3} x^2 \sqrt{\operatorname{csch}(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/csch(x)^(3/2)+1/3*x^2*csch(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/316_6.6.1

Test file number 316

Integral number in file 16

Fricas [F(-2)]

Exception generated.

$$\int \left(-\frac{3d^2 e^{a+bx}}{4(b^2 - \frac{9d^2}{4}) \sqrt{\sinh(c+dx)}} + e^{a+bx} \sinh^{\frac{3}{2}}(c+dx) \right) dx$$

= Exception raised: TypeError

input `integrate(-3/4*d^2*exp(b*x+a)/(b^2-9/4*d^2)/sinh(d*x+c)^(1/2)+exp(b*x+a)*sinh(d*x+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (has polynomial part)`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/321_6.7.1

Test file number 321

Integral number in file 17

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 41

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 42

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 43

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 44

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 45

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 46

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 47

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 48

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 49

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 50

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 51

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 52

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 53

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 54

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 55

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 56

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + b \operatorname{arcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)\sqrt{a + \operatorname{barcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barcsinh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + b \operatorname{arcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + \operatorname{barcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 146

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + \operatorname{barcsinh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barcsinh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barcsinh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barcsinh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arcsinh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arcsinh(a*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 242

Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 243

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 244

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax^n) dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x^n),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 245

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 246

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x^n)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 247

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax^n)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x^n)/x^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 248

Fricas [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 263

Fricas [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 264

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 265

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ib \arcsin(1 - idx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 266

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 267

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 268

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 269

Fricas [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 270

Fricas [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + id x^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 271

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a - ib \arcsin(1 + id x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 272

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - ib \arcsin(1 + id x^2)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code:  inte
grate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 273

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + id x^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(3/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code:  inte
grate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 274

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + id x^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 275

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + id x^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 276

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 283

Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 137

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arcsinh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 146

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{5/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2)/x^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 170

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 171

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 172

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 175

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + b\operatorname{arcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b*arcsinh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 176

Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 177

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 178

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/arcsinh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 179

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/arcsinh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 180

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 \sqrt{a + \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(c^2*d*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{(d + c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(c^2*d*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(c^2*d*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{(d + c^2 dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(c^2*d*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2) \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^2 \sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3}{(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{barcsinh}(cx)}}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(c^2*d*x^2+d)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{barcsinh}(cx)}}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(c^2*d*x^2+d)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{barcsinh}(cx)}}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(c^2*d*x^2+d)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^{3/2}}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(c^2*d*x^2+d)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^{3/2}}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(c^2*d*x^2+d)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^{3/2}}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(c^2*d*x^2+d)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int (a^2 + x^2)^{3/2} \sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2+x^2)^(3/2)*arcsinh(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 118

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 + x^2} \sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2+x^2)^(1/2)*arcsinh(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)}}{(a^2 + x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(x/a)^(1/2)/(a^2+x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 121

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arcsinh}\left(\frac{x}{a}\right)}}{(a^2 + x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(x/a)^(1/2)/(a^2+x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int (a^2 + x^2)^{3/2} \operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2+x^2)^(3/2)*arcsinh(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 + x^2} \operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2+x^2)^(1/2)*arcsinh(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 + x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(x/a)^(3/2)/(a^2+x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 126

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 + x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(x/a)^(3/2)/(a^2+x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 127

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2}}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 128

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2}}{\sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^2*d*x^2+d)^(3/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 129

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}}{\sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^2*d*x^2+d)^(1/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 130

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d + c^2 dx^2} \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^(1/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 131

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^{3/2} \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^(3/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 132

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^{5/2} \sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^(5/2)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 133

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2}}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 134

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2}}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 135

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 136

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^(3/2)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 138

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c^2*d*x^2+d)^(5/2)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 139

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2}}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 140

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2 cx^2}}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 141

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arcsinh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 183

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 184

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 185

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 186

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 187

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 188

Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 189

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 190

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 191

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 192

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 193

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 194

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 195

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + \operatorname{barcsinh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arcsinh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 196

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 197

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 198

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 199

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 200

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 446

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 447

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 448

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 449

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 450

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x^2(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/x^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 451

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x^3(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/x^3/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 452

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 453

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 454

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 455

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 456

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 457

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x^2(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/x^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 458

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x^3(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/x^3/(a+b*arcsinh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 459

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1+x^2} \sqrt{\operatorname{arcsinh}(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(x^2+1)^(1/2)/arcsinh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 460

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^4 \sqrt{a + b \operatorname{arccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 72

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 73

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)\sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{barccosh}(c + dx)}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(1/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 79

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^{3/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(3/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^3 (a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^{5/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(5/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)^2 (a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2*(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int (ce + dex)(a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)*(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^{7/2}}{ce + dex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^(7/2)/(d*e*x+c*e),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)\sqrt{a + \operatorname{barccosh}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barccosh}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + b \operatorname{arccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + \operatorname{barccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barccosh}(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^4}{(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^4/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^3}{(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^3/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{(ce + dex)^2}{(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^2/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{ce + dex}{(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(ce + dex)(a + \operatorname{barccosh}(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*e*x+c*e)/(a+b*arccosh(d*x+c))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{arccosh}(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \operatorname{arccosh}(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{arccosh}(1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{arccosh}(1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{barccosh}(1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2+1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 170

Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 171

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{arccosh}(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 172

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 175

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(-1 + dx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2-1))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 176

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 183

Fricas [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 10

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 11

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 12

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 13

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 14

Fricas [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 72

Fricas [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 73

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 74

Fricas [F(-2)]

Exception generated.

$$\int x \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 75

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 76

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(1/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 77

Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 78

Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 79

Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 80

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 81

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(3/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(5/2)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 113

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x \operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/arccosh(a*x)^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int x^m \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 122

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 123

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 124

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 125

Fricas [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 142

Fricas [F(-2)]

Exception generated.

$$\int x\sqrt{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 143

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 144

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 145

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 146

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 147

Fricas [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 148

Fricas [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 149

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 150

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 151

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 152

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 153

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 154

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 155

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 156

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 157

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 158

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 159

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(7/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 82

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 83

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 86

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 87

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 88

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 89

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{3/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(3/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 90

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 91

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 92

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 93

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^{5/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^(5/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 94

Fricas [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(3/2)*arccosh(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 95

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arccosh(x/a)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 96

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 97

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 98

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arccosh}\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 99

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2-x^2)^(1/2)*arccosh(x/a)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 100

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 101

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(x/a)^(3/2)/(a^2-x^2)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{5/2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 110

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2 cx^2)^{3/2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 111

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 112

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 114

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 115

Fricas [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 116

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2 cx^2}}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 117

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 119

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccosh(a*x)^(5/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 120

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 \sqrt{a + b \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 160

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) \sqrt{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 161

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 162

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{arccosh}(cx)}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 163

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{arccosh}(cx)}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 164

Fricas [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 165

Fricas [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 166

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 167

Fricas [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^{3/2}}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 168

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 169

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 170

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 171

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \operatorname{arccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 172

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 \sqrt{a + \operatorname{barccosh}(cx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccosh(c*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 173

Fricas [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 174

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 175

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 176

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 177

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 307

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 308

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 309

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 310

Fricas [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 311

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 312

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 313

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 314

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{(a + b \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 315

Fricas [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + \operatorname{arccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 316

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\operatorname{arccosh}(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arccosh(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 317

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 280

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 320

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\operatorname{arctanh}(ax)}}{(1-a^2x^2)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(arctanh(a*x)^(1/2)/(-a^2*x^2+1)^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 348

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsech(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/346_7.5

Test file number 346

Integral number in file 29

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{sech}^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arcsech(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/346_7.5

Test file number 346

Integral number in file 31

Fricas [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^{-1}(ax^n)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(arccsch(a*x^n)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/348_7.6

Test file number 348

Integral number in file 23

Fricas [F(-2)]

Exception generated.

$$\int \operatorname{csch}^{-1}(ce^{a+bx}) dx = \text{Exception raised: TypeError}$$

input `integrate(arccsch(c*exp(b*x+a)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/348_7.6

Test file number 348

Integral number in file 25

Fricas [F(-2)]

Exception generated.

$$\int x^{100}\Gamma(0, ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^100*exp_integral_e(1,a*x),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^(((100)::EXPR INT)))*(exp_integral_e(((1)::EXPR INT),(a)*(x))): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 1

Fricas [F(-2)]

Exception generated.

$$\int x^2 \Gamma(0, ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*exp_integral_e(1,a*x),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^((2)::EXPR INT))*(exp_integral_e((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 2

Fricas [F(-2)]

Exception generated.

$$\int x \Gamma(0, ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*exp_integral_e(1,a*x),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (x)*(exp_integral_e((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 3

Fricas [F(-2)]

Exception generated.

$$\int \Gamma(0, ax) dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,a*x),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated exp_integral_e(((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 4

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,a*x)/x,x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^((-1)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),(a)*(x))): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 5

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,a*x)/x^2,x, algorithm="fricas")`

output Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^((-2)::EXPR INT))*exp_integral_e((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 6

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,a*x)/x^3,x, algorithm="fricas")`

output Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^((-3)::EXPR INT))*exp_integral_e((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 7

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,a*x)/x^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated ((x)^((-4)::EXPR INT))*(exp_integral_e((1)::EXPR INT),(a)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 8

Fricas [F(-2)]

Exception generated.

$$\int (dx)^m \Gamma(0, bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*exp_integral_e(1,b*x),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))^m)*(exp_integral_e((1)::EXPR INT),(b)*(x)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 79

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^3 \Gamma(0, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^3*exp_integral_e(1,b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c)^((3)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),(b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDoc`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 102

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^2 \Gamma(0, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*exp_integral_e(1,b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c)^((2)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),(b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDoc`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 103

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)\Gamma(0, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*exp_integral_e(1,b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a)): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 104

Fricas [F(-2)]

Exception generated.

$$\int \Gamma(0, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated exp_integral_e(((1)::EXPR INT),((b)*(x))+a): There are no library operations named exp_integral_e Use HyperDoc Browse or issue`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, a + bx)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,b*x+a)/(d*x+c),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c)^((-1)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDo`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 106

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, a + bx)}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,b*x+a)/(d*x+c)^2,x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c)^((-2)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDo`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 107

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, a + bx)}{(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,b*x+a)/(d*x+c)^3,x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c))^((-3)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDo`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 108

Fricas [F(-2)]

Exception generated.

$$\int \frac{\Gamma(0, a + bx)}{(c + dx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(exp_integral_e(1,b*x+a)/(d*x+c)^4,x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c))^((-4)::EXPR INT))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDo`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 109

Fricas [F(-2)]

Exception generated.

$$\int (c + dx)^m \Gamma(0, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^m*exp_integral_e(1,b*x+a),x, algorithm="fricas")`

output `Exception raised: TypeError >> An error occurred when FriCAS evaluated (((d)*(x))+c)^(m))*(exp_integral_e(((1)::EXPR INT),((b)*(x))+a))): There are no library operations named exp_integral_e Use HyperDoc Browse or iss`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 182

Fricas [F(-2)]

Exception generated.

$$\int x^m \sqrt{cW(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c*lambert_w(a*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: loge xtint: unhandled kernel`

input file name test_cases/rubi_tests/8_Special_functions/358_8.9

Test file number 358

Integral number in file 84

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{cW(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(c*lambert_w(a*x))^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: loge
xtint: unhandled kernel`

input file name test_cases/rubi_tests/8_Special_functions/358_8.9

Test file number 358

Integral number in file 85

Fricas [F(-2)]

Exception generated.

$$\int (1-x)^{2014} x dx = \text{Exception raised: RecursionError}$$

input `integrate((1-x)^2014*x,x, algorithm="fricas")`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 105

Fricas [F(-2)]

Exception generated.

$$\int (1-x)^{2020} x dx = \text{Exception raised: RecursionError}$$

input `integrate((1-x)^2020*x,x, algorithm="fricas")`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 227

Fricas [F(-2)]

Exception generated.

$$\int \sqrt{\frac{\log(\frac{1}{x})}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((log(1/x)/x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 259

Fricas [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}\sqrt{\log(x)}} + \sqrt{2}\sqrt{\log(x)} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(1/2*2^(1/2)/log(x)^(1/2)+2^(1/2)*log(x)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 302

Fricas [F(-2)]

Exception generated.

$$\int \frac{\left(e^x \log \left(\log \left(e^{x+x^2} - e^x x \right) \right) \right)^{2/9} \left(-4 - 4x + e^{x^2} (4 + 8x) + (4e^{x^2} - 4x) \log \left(e^{x+x^2} - e^x x \right) \log \left(\log \left(e^{x+x^2} - e^x x \right) \right) \right)}{(9e^{x^2} - 9x) \log \left(e^{x+x^2} - e^x x \right) \log \left(\log \left(e^{x+x^2} - e^x x \right) \right)} dx$$

input `integrate(((4*exp(x^2)-4*x)*log(exp(x)*exp(x^2)-exp(x)*x)*log(log(exp(x)*exp(x^2)-exp(x)*x)))+(8*x+4)*exp(x^2)-4*x-4)*(exp(x)*log(log(exp(x)*exp(x^2)-exp(x)*x)))^(2/9)/(9*exp(x^2)-9*x)/log(exp(x)*exp(x^2)-exp(x)*x)/log(log(exp(x)*exp(x^2)-exp(x)*x)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 833

Fricas [F(-2)]

Exception generated.

$$\int \frac{-6 - 3e^x + e^{\frac{1}{3}(3x + \log(2 + e^x - \log(\frac{5}{2})))} (6 + 4e^x - 3\log(\frac{5}{2})) + 3\log(\frac{5}{2}) + (-6 - 3e^x + 3\log(\frac{5}{2})) \log(x)}{6 + 3e^x - 3\log(\frac{5}{2})} dx$$

= Exception raised: TypeError

input

```
integrate(((4*exp(x)+3*log(2/5)+6)*exp(1/3*log(exp(x)+log(2/5)+2)+x)+(-3*exp(x)-3*log(2/5)-6)*log(x)-3*exp(x)-3*log(2/5)-6)/(3*exp(x)+3*log(2/5)+6),
x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/extra_tests/361_Hebisch_1Test file number 361Integral number in file 975**Fricas [F(-2)]**

Exception generated.

$$\int \frac{e^{\frac{1}{3}(-e^{-4+\sqrt[4]{x}}-3x\log(3))} (-e^{-4+\sqrt[4]{x}}\sqrt[4]{x} - 12x\log(3))}{48x} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/48*(-x^(1/4)*exp(x^(1/4)-4)-12*x*log(3))*exp(-1/3*exp(x^(1/4)-4)-x*log(3))/x,x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: alglogextint: unimplemented
```

input file name test_cases/extra_tests/361_Hebisch_1Test file number 361Integral number in file 2446

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}(-10+\log(15-12x\log(2+\log^2(4+x^2))))}(8x^2\log(4+x^2)+(16+4x^2+(8+2x^2)\log^2(4+x^2))\log(2+\log^2(4+x^2)))}{-40-10x^2+(-20-5x^2)\log^2(4+x^2)+(32x+8x^3+(16x+4x^3)\log^2(4+x^2))\log(2+\log^2(4+x^2))} dx$$

= Exception raised: TypeError

input

```
integrate((((2*x^2+8)*log(x^2+4)^2+4*x^2+16)*log(log(x^2+4)^2+2)+8*x^2*log(x^2+4))*exp(1/2*log(-12*x*log(log(x^2+4)^2+2)+15)-5)/(((4*x^3+16*x)*log(x^2+4)^2+8*x^3+32*x)*log(log(x^2+4)^2+2)+(-5*x^2-20)*log(x^2+4)^2-10*x^2-40),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (constant residues)
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 878

Fricas [F(-2)]

Exception generated.

$$\int e^{2e^{\frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)}+\frac{1}{3}\left(-3+\log\left(\frac{e^4x+x^2-3x\log(x)}{e^4+x}\right)\right)} \frac{(-2e^8+e^4(6-4x)+6x-2x^2+6e^4\log(x))}{-3e^8x-6e^4x^2-3x^3+(9e^4x+9x^2)\log(x)} dx$$

= Exception raised: TypeError

input

```
integrate((6*exp(4)*log(x)-2*exp(4)^2+(6-4*x)*exp(4)-2*x^2+6*x)*exp(1/3*log((-3*x*log(x)+x*exp(4)+x^2)/(x+exp(4)))-1)*exp(2*exp(1/3*log((-3*x*log(x)+x*exp(4)+x^2)/(x+exp(4)))-1))/((9*x*exp(4)+9*x^2)*log(x)-3*x*exp(4)^2-6*x^2*exp(4)-3*x^3),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: do_alg_rde: unimplemented kernel
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2066

Fricas [F(-2)]

Exception generated.

$$\int \frac{(20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2) \log(\log(5 - x^2)) + \sqrt{2 - x \log(\log(5 - x^2))} (20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2)}{(20x^2 - 4x^4) \log(5 - x^2) + (-10x^3 + 2x^5) \log(5 - x^2)}$$

= Exception raised: TypeError

input

```
integrate(((((-x^3+5*x)*log(-x^2+5)*log(log(-x^2+5)))+(4*x^2-20)*log(-x^2+5)
+2*x^3)*(-x*log(log(-x^2+5))+2)^(1/2)+(2*x^5-10*x^3)*log(-x^2+5)*log(log(-
x^2+5))+(-4*x^4+20*x^2)*log(-x^2+5))/((2*x^5-10*x^3)*log(-x^2+5)*log(log(-
x^2+5))+(-4*x^4+20*x^2)*log(-x^2+5)),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (constant residues)
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2285

Fricas [F(-2)]

Exception generated.

$$\int \frac{e^{\sqrt{\frac{200-25 \log(e^x x)}{x}}} \left(16 + \sqrt{\frac{200-25 \log(e^x x)}{x}} (9 + x - \log(e^x x)) - 2 \log(e^x x) \right)}{-16x^2 + 2x^2 \log(e^x x)} dx$$

= Exception raised: TypeError

input

```
integrate(((((-log(exp(x)*x)+x+9)*((-25*log(exp(x)*x)+200)/x)^(1/2)-2*log(ex
p(x)*x)+16)*exp(((25*log(exp(x)*x)+200)/x)^(1/2)))/(2*x^2*log(exp(x)*x)-16
*x^2),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: do_a
lg_rde: unimplemented kernel
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2642

Fricas [F(-2)]

Exception generated.

$$\int \frac{-3x^4 + 3e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^3 \log(x) + e^{\frac{1}{3} \left(-5 + \log \left(-x + e^{\frac{25+10e^3x+e^6x^2}{x^2}} \log(x) \right) \right)} \left(e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^2 - x^3 + e^{\frac{25+10e^3x+e^6x^2}{x^2}} \right)}{-3x^4 + 3e^{\frac{25+10e^3x+e^6x^2}{x^2}} x^3 \log(x)}$$

= Exception raised: TypeError

input

```
integrate(((((-10*x*exp(3)-50)*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)*log(x)
)+x^2*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)-x^3)*exp(1/3*log(exp((x^2*exp
(3)^2+10*x*exp(3)+25)/x^2)*log(x)-x)-5/3)+3*x^3*exp((x^2*exp(3)^2+10*x*exp
(3)+25)/x^2)*log(x)-3*x^4)/(3*x^3*exp((x^2*exp(3)^2+10*x*exp(3)+25)/x^2)*1
og(x)-3*x^4),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (constant residues)
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2482

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x+x^2)\sqrt[3]{-1+x^3}}{x(-1+x^2)^2(-3-2x+x^2+x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+x+2)*(x^3-1)^(1/3)/x/(x^2-1)^2/(x^3+x^2-2*x-3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/365_Goursat

Test file number 365

Integral number in file 9

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x^2}{(-1+x^2)(2+x^2)\sqrt{-3+x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+1)/(x^2-1)/(x^2+2)/(x^4-3)^(1/2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 278

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x^2+x^6}(-1+2x^6)}{(1+x^6)(2-x^2+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^6+x^2+1)^(1/2)*(2*x^6-1)/(x^6+1)/(2*x^6-x^2+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: catd ef: division by zero`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 600

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x-x^4}}{1+x^2-2x^3-x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+2)*(-x^4+x)^(1/3)/(x^6-x^5-x^4-2*x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 695

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x-x^4}}{1+x^2-2x^3-x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+2)*(-x^4+x)^(1/3)/(x^6-x^5-x^4-2*x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 696

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)\sqrt[3]{x+x^3+x^4}}{1+x^2+2x^3+x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^6+x^5+x^4+2*x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 715

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3) \sqrt[3]{x + x^3 + x^4}}{1 + x^2 + 2x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^6+x^5+x^4+2*x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 716

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(3 + 4x) \sqrt[3]{-1 - 2x + x^3}}{-2 - 8x - 8x^2 + x^6} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(3+4*x)*(x^3-2*x-1)^(1/3)/(x^6-8*x^2-8*x-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 765

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(3+4x)\sqrt[3]{-1-2x+x^3}}{-2-8x-8x^2+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(3+4*x)*(x^3-2*x-1)^(1/3)/(x^6-8*x^2-8*x-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 766

Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)(1+x+x^3)^{2/3}}{1+2x+x^2+x^3+x^4+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((3+2*x)*(x^3+x+1)^(2/3)/(x^6+x^4+x^3+x^2+2*x+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 767

Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)(1+x+x^3)^{2/3}}{1+2x+x^2+x^3+x^4+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((3+2*x)*(x^3+x+1)^(2/3)/(x^6+x^4+x^3+x^2+2*x+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 768

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x+x^3-x^4}}{1+x^2-2x^3+x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+2)*(-x^4+x^3+x)^(1/3)/(x^6-x^5+x^4-2*x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 769

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^3)\sqrt[3]{x+x^3-x^4}}{1+x^2-2x^3+x^4-x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+2)*(-x^4+x^3+x)^(1/3)/(x^6-x^5+x^4-2*x^3+x^2+1),x, algorithm
m="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 770

Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+x^2)(1+x^2+x^3)^{2/3}}{-1-2x^2+x^3-x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+3)*(x^3+x^2+1)^(2/3)/(x^6+x^5-x^4+x^3-2*x^2-1),x, algorithm
="fricas")`

output `Exception raised: TypeError >> Error detected within library code: inte
grate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 771

Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+x^2)(1+x^2+x^3)^{2/3}}{-1-2x^2+x^3-x^4+x^5+x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+3)*(x^3+x^2+1)^(2/3)/(x^6+x^5-x^4+x^3-2*x^2-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 772

Fricas [F(-2)]

Exception generated.

$$\int \frac{x\sqrt[3]{2-x^3+x^8}(-6+5x^8)}{4+x^6+4x^8+x^{16}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(x^8-x^3+2)^(1/3)*(5*x^8-6)/(x^16+4*x^8+x^6+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 774

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-3 + x^2)(1 - x^2 + x^3)^{2/3}}{1 - 2x^2 - x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-3)*(x^3-x^2+1)^(2/3)/(x^6+x^5+x^4-x^3-2*x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 801

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-3 + x^2)(1 - x^2 + x^3)^{2/3}}{1 - 2x^2 - x^3 + x^4 + x^5 + x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-3)*(x^3-x^2+1)^(2/3)/(x^6+x^5+x^4-x^3-2*x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 802

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x + x^3}(b + ax^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3+x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 804

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x + x^3}(b + ax^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3+x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 805

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + 5x^7) \sqrt[3]{2x + x^3 + 2x^8}}{4 + x^4 + 8x^7 + 4x^{14}} dx = \text{Exception raised: TypeError}$$

input `integrate((5*x^7-2)*(2*x^8+x^3+2*x)^(1/3)/(4*x^14+8*x^7+x^4+4),x, algorithm m="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 810

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + 5x^7) \sqrt[3]{2x + x^3 + 2x^8}}{4 + x^4 + 8x^7 + 4x^{14}} dx = \text{Exception raised: TypeError}$$

input `integrate((5*x^7-2)*(2*x^8+x^3+2*x)^(1/3)/(4*x^14+8*x^7+x^4+4),x, algorithm m="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 811

Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{(b + ax^6) \sqrt[3]{-b + a^3x^3 + ax^6}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6-b)/(a*x^6+b)/(a*x^6+a^3*x^3-b)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 860

Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{(b + ax^6) \sqrt[3]{-b + a^3x^3 + ax^6}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6-b)/(a*x^6+b)/(a*x^6+a^3*x^3-b)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 861

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2+x^2)\sqrt[4]{-1-x^2+x^4}(1+x^2+x^4)}{x^6(1+x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+2)*(x^4-x^2-1)^(1/4)*(x^4+x^2+1)/x^6/(x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 899

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}}{b+ax^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 937

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}}{b+ax^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)/(a*x^6+b),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 938

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)(1+x^3)^{2/3}}{x^3(2+x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 962

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 963

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3)^{2/3}(2 + x^3 + 2x^6)}{x^6(1 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(2*x^6+x^3+2)/x^6/(x^6+x^3+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1005

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(2+x^3+2x^6)}{x^6(1+x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(2*x^6+x^3+2)/x^6/(x^6+x^3+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1006

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-bx+ax^3}(d+cx^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^3-b*x)^(1/3)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1020

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-bx + ax^3}(d + cx^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^3-b*x)^(1/3)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1021

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - 2x^3 + x^6)}{x^6 (1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-x^3+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1034

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - 2x^3 + x^6)}{x^6 (1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-x^3+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1035

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1052

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1053

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1 - x^2)^2}{(1 + x^2) (1 + 6x^2 + x^4)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate((-x^2+1)^2/(x^2+1)/(x^4+6*x^2+1)^(3/4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1079

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2) \sqrt[4]{-1+2x^2+2x^4}}{x^2(-1+2x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)*(2*x^4+2*x^2-1)^(1/4)/x^2/(2*x^2-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1114

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3} (2+x^3)}{x^6 (-4-2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6-2*x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1168

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (-4 - 2x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6-2*x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1169

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 - 2x^3 + x^6)}{x^6 (-8 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+4)/x^6/(x^6+4*x^3-8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1170

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 - 2x^3 + x^6)}{x^6 (-8 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+4)/x^6/(x^6+4*x^3-8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1171

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 - 2x^3 + x^6)}{x^6 (-4 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+2)/x^6/(x^6+4*x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1172

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 - 2x^3 + x^6)}{x^6 (-4 + 4x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-2*x^3+2)/x^6/(x^6+4*x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1173

Fricas [F(-2)]

Exception generated.

$$\int \frac{x(-1 + kx)(-1 + (-1 + 2k)x)}{\sqrt[3]{(1-x)x(1-kx)}(-1 + (4-c)x + (-6 + b + 2c + ck)x^2 + (4-c-2bk-2ck)x^3 + (-1 + ck + bk^2))} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(k*x-1)*(-1+(-1+2*k)*x)/(((1-x)*x*(-k*x+1))^(1/3)/(-1+(4-c)*x+(c*k+b+2*c-6)*x^2+(-2*b*k-2*c*k-c+4)*x^3+(b*k^2+c*k-1)*x^4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1188

Fricas [F(-2)]

Exception generated.

$$\int \frac{3 - x^2}{(1 - x^2) \sqrt[4]{1 - 6x^2 + x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((-x^2+3)/(-x^2+1)/(x^4-6*x^2+1)^(1/4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1253

Fricas [F(-2)]

Exception generated.

$$\int \frac{-1 + x}{(1 + x) \sqrt[3]{2 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((-1+x)/(1+x)/(x^3+2)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1264

Fricas [F(-2)]

Exception generated.

$$\int \frac{(3+2x)\sqrt[3]{1+x+x^3}}{x^2(1+x)} dx = \text{Exception raised: TypeError}$$

input `integrate((3+2*x)*(x^3+x+1)^(1/3)/x^2/(1+x),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1315

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^2)^2}{(1-x^2)(1-6x^2+x^4)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+1)^2/(-x^2+1)/(x^4-6*x^2+1)^(3/4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1317

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x^2}}{x^2 + \sqrt{x + \sqrt{1+x^2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate((x^2+1)^(1/2)/(x^2+(x+(x^2+1)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1385

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x^2}}{x^2 + \sqrt{x + \sqrt{1+x^2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate((x^2+1)^(1/2)/(x^2+(x+(x^2+1)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1386

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)(1 + x^3)^{2/3}}{x^3(-1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)*(x^3+1)^(2/3)/x^3/(x^6-x^3-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1397

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)(1 + x^3)^{2/3}}{x^3(-1 - x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)*(x^3+1)^(2/3)/x^3/(x^6-x^3-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1398

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(-2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(2*x^6+x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1464

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(-2 + x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(2*x^6+x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1465

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^3 (-4 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^3/(x^6+x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1493

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^3 (-4 + x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^3/(x^6+x^3-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1494

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1+x^3+2x^6)}{x^6(-1+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(2*x^6+x^3+1)/x^6/(2*x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1539

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1+x^3+2x^6)}{x^6(-1+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(2*x^6+x^3+1)/x^6/(2*x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1540

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2 (4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1553

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2 (4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1554

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1-2x^3+x^6)}{x^6(-2+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1595

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(1-2x^3+x^6)}{x^6(-2+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^6-2*x^3+1)/x^6/(x^6-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1596

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(-1+x^6)}{x^6(-2+x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-1)/x^6/(2*x^6+x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1598

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)^{2/3}(-1+x^6)}{x^6(-2+x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-1)/x^6/(2*x^6+x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1599

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (4 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1613

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (4 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(x^6+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1614

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+x^3)}{x^6(8-4x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^3+4)/x^6/(x^6-4*x^3+8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1666

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+x^3)}{x^6(8-4x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^3+4)/x^6/(x^6-4*x^3+8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1667

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3} (2+x^3) (4+3x^3)}{x^6 (4+2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^3+2)*(3*x^3+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1668

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3} (2+x^3) (4+3x^3)}{x^6 (4+2x^3+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^3+2)*(3*x^3+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1669

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 + x^6)}{x^6 (4 + 2x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1670

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (4 + x^6)}{x^6 (4 + 2x^3 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6+4)/x^6/(x^6+2*x^3+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1671

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - x^3 + x^6)}{x^6 (-2 - x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-x^3+1)/x^6/(2*x^6-x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1672

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (1 - x^3 + x^6)}{x^6 (-2 - x^3 + 2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-1)^(2/3)*(x^6-x^3+1)/x^6/(2*x^6-x^3-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1673

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3} (4+6x^3+3x^6)}{x^6 (8+6x^3+3x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1674

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3} (4+6x^3+3x^6)}{x^6 (8+6x^3+3x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1675

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^2)\sqrt[3]{-x+2x^3}}{x^2(1+x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+1)*(2*x^3-x)^(1/3)/x^2/(x^4+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1699

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+2x^2)\sqrt[3]{x+2x^3}}{x^4(1+2x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2+1)*(2*x^3+x)^(1/3)/x^4/(2*x^4+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1711

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x - \sqrt{b + ax} \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1712

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{x - \sqrt{b + ax} \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1713

Fricas [F(-2)]

Exception generated.

$$\int \frac{(4+x^2)\sqrt[3]{-2x+x^3}}{x^4(-4-4x^2+x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+4)*(x^3-2*x)^(1/3)/x^4/(x^4-4*x^2-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1717

Fricas [F(-2)]

Exception generated.

$$\int \frac{(4+x^2)\sqrt[3]{-2x+x^3}}{x^4(-4-4x^2+x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+4)*(x^3-2*x)^(1/3)/x^4/(x^4-4*x^2-4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1718

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^5) \sqrt[3]{1+x^3+x^5}(-3+2x^5)}{x^2(2-2x^3+4x^5-x^6-2x^8+2x^{10})} dx = \text{Exception raised: TypeError}$$

input `integrate((x^5+1)*(x^5+x^3+1)^(1/3)*(2*x^5-3)/x^2/(2*x^10-2*x^8-x^6+4*x^5-2*x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1727

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^5) \sqrt[3]{1+x^3+x^5}(-3+2x^5)}{x^2(2-2x^3+4x^5-x^6-2x^8+2x^{10})} dx = \text{Exception raised: TypeError}$$

input `integrate((x^5+1)*(x^5+x^3+1)^(1/3)*(2*x^5-3)/x^2/(2*x^10-2*x^8-x^6+4*x^5-2*x^3+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1728

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x + 2x^3}(-1 + x^4)}{x^4(2 - x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^3+x)^(1/3)*(x^4-1)/x^4/(x^4-x^2+2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1764

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1778

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x+x^3}(8-10x^2+x^4)}{x^4(4-2x^2+x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1779

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(-1+x)(1+2x)\sqrt[3]{-1+3x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)/(-1+x)/(1+2*x)/(3*x^2-1)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1889

Fricas [F(-2)]

Exception generated.

$$\int \frac{b - ax^5}{\sqrt{a + bx}(ab + x^5)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a*x^5+b)/(b*x+a)^(1/2)/(x^5+a*b),x, algorithm="fricas")`

output `Exception raised: RuntimeError >> no explicit roots found`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1959

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-4 + x^2) \sqrt[4]{2 - x^2 - 2x^4}}{x^2(-2 + x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-4)*(-2*x^4-x^2+2)^(1/4)/x^2/(x^2-2),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2014

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 - \sqrt{1+x^2}}{x^2 + \sqrt{x + \sqrt{1+x^2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate((x^2-(x^2+1)^(1/2))/(x^2+(x+(x^2+1)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2169

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^2 - \sqrt{1+x^2}}{x^2 + \sqrt{x + \sqrt{1+x^2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate((x^2-(x^2+1)^(1/2))/(x^2+(x+(x^2+1)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2170

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x+x^3}(-1+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2201

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{x+x^3}(-1+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2202

Fricas [F(-2)]

Exception generated.

$$\int \frac{b + ax^6}{\sqrt[3]{x + x^3}(d + cx^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6+b)/(x^3+x)^(1/3)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2213

Fricas [F(-2)]

Exception generated.

$$\int \frac{b + ax^6}{\sqrt[3]{x + x^3}(d + cx^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6+b)/(x^3+x)^(1/3)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2214

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-x+x^3}(1+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3-x)^(1/3)/(x^6+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2276

Fricas [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{-x+x^3}(1+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3-x)^(1/3)/(x^6+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2277

Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{\sqrt[3]{-x + x^3(-d + cx^6)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6-b)/(x^3-x)^(1/3)/(c*x^6-d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2288

Fricas [F(-2)]

Exception generated.

$$\int \frac{-b + ax^6}{\sqrt[3]{-x + x^3(-d + cx^6)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^6-b)/(x^3-x)^(1/3)/(c*x^6-d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2289

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x + \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(x/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2303

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x + \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(x/(x+(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2304

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(3+x)(1+2x)\sqrt[3]{1+x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)/(3+x)/(1+2*x)/(x^2+1)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2337

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}}{x + \sqrt{x + \sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)/(x+(x+(1+x)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2353

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}}{x + \sqrt{x + \sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)/(x+(x+(1+x)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2354

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x + x^3(b + ax^6)}}{d + cx^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+x)^(1/3)*(a*x^6+b)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2386

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x+x^3}(b+ax^6)}{d+cx^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+x)^(1/3)*(a*x^6+b)/(c*x^6+d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2387

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-1+2x^6)\sqrt[3]{x+x^7}}{(1-2x^2+x^6)(1-x^2+x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^6-1)*(x^7+x)^(1/3)/(x^6-2*x^2+1)/(x^6-x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2388

Fricas [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{\sqrt[3]{4 + 3x^2} (-12 + 52x + 9x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((2+3*x)/(3*x^2+4)^(1/3)/(9*x^2+52*x-12),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2432

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(-b + ax^6)}{-d + cx^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)*(a*x^6-b)/(c*x^6-d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2474

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(-b + ax^6)}{-d + cx^6} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x)^(1/3)*(a*x^6-b)/(c*x^6-d),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2475

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3) \sqrt[3]{x + x^3 + x^4}}{(1 + x^3)(1 - x^2 + x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^4+x^3+x)^(1/3)/(x^3+1)/(x^3-x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2506

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x)\sqrt[3]{x-x^2+x^3}}{(-1+x)(-1+x+x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((-2+x)*(x^3-x^2+x)^(1/3)/(-1+x)/(x^2+x-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2593

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2+x^3)\sqrt[3]{x+2x^3+x^4}}{(1+x^3)(1+x^2+x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-2)*(x^4+2*x^3+x)^(1/3)/(x^3+1)/(x^3+x^2+1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2596

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + 2x^6}{\sqrt[3]{x + x^3}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^6+1)/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2658

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + 2x^6}{\sqrt[3]{x + x^3}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^6+1)/(x^3+x)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2659

Fricas [F(-2)]

Exception generated.

$$\int \frac{(2 + 5x^7) \sqrt[3]{-x - x^3 + x^8}}{(-1 + x^7)(-1 + x^2 + x^7)} dx = \text{Exception raised: TypeError}$$

input `integrate((5*x^7+2)*(x^8-x^3-x)^(1/3)/(x^7-1)/(x^7+x^2-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2697

Fricas [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-b + ax}}{1 + \sqrt{ax + \sqrt{-b + ax}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-b)^(1/2)/(1+(a*x+(a*x-b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (irrational residues)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2715

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{x - \sqrt{1 + x^2}}}{x^4 - 2x^2\sqrt{1 + x^2}} dx = \text{Exception raised: AttributeError}$$

input `integrate((1-(x-(x^2+1)^(1/2))^(1/2))/(x^4-2*x^2*(x^2+1)^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2746

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + x}{(1 + 2x)\sqrt[3]{27 + 27x + 36x^2 + 28x^3 + 9x^4 + x^5}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)/(1+2*x)/(x^5+9*x^4+28*x^3+36*x^2+27*x+27)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2875

Fricas [F(-2)]

Exception generated.

$$\int \frac{x^4}{1 - x\sqrt{1+x^2}\sqrt{x - \sqrt{1+x^2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(x^4/(1-x*(x^2+1)^(1/2)*(x-(x^2+1)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError >> NoneType object has no attribute replace`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2884

Fricas [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(-1+x^6)}{x^6(-1-2x^3+2x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3+1)^(2/3)*(x^6-1)/x^6/(2*x^6-2*x^3-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2908

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x - \sqrt{b + ax} \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(x/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2976

Fricas [F(-2)]

Exception generated.

$$\int \frac{x}{x - \sqrt{b + ax} \sqrt{c + \sqrt{b + ax}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(x/(x-(a*x+b)^(1/2)*(c+(a*x+b)^(1/2))^(1/2)),x, algorithm="fricas")`

output `Exception raised: AttributeError`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2977

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2x + (1+k)x^2)(1 - (1+k)x + (a+k)x^2)}{((1-x)x(1-kx))^{2/3}(1 - 2(1+k)x + (1+4k+k^2)x^2 - 2(k+k^2)x^3 + (-b+k^2)x^4)} dx = \text{Exception}$$

input

```
integrate((-2*x+(1+k)*x^2)*(1-(1+k)*x+(a+k)*x^2)/((1-x)*x*(-k*x+1))^(2/3)/
(1-2*(1+k)*x+(k^2+4*k+1)*x^2-2*(k^2+k)*x^3+(k^2-b)*x^4),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2978

Fricas [F(-2)]

Exception generated.

$$\int \frac{(-2 + (1+k)x)(1 - (1+k)x + (a+k)x^2)}{\sqrt[3]{(1-x)x(1-kx)}(1 - (2+2k)x + (1+4k+k^2)x^2 - 2(k+k^2)x^3 + (-b+k^2)x^4)} dx$$

= Exception raised: TypeError

input

```
integrate((-2+(1+k)*x)*(1-(1+k)*x+(a+k)*x^2)/((1-x)*x*(-k*x+1))^(1/3)/(1-(
2+2*k)*x+(k^2+4*k+1)*x^2-2*(k^2+k)*x^3+(k^2-b)*x^4),x, algorithm="fricas")
```

output

```
Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2979

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 - x^3 + x^6}{\sqrt[3]{x^2 + x^4}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^6-x^3+1)/(x^4+x^2)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3025

Fricas [F(-2)]

Exception generated.

$$\int \frac{1 + x^3 + x^6}{\sqrt[3]{x^2 + x^4}(-1 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^6+x^3+1)/(x^4+x^2)^(1/3)/(x^6-1),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3026

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{(-3+x^2)\sqrt[3]{1+x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)/(x^2-3)/(x^2+1)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3056

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+x}{\sqrt[3]{27+189x+522x^2+784x^3+825x^4+679x^5+338x^6+84x^7+8x^8}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)/(8*x^8+84*x^7+338*x^6+679*x^5+825*x^4+784*x^3+522*x^2+189*x+27)^(1/3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (residue poly has multiple non-linear factors)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3070

Fricas [F(-2)]

Exception generated.

$$\int \frac{1+2x}{\sqrt[3]{-1+x^2}(3+x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((1+2*x)/(x^2-1)^(1/3)/(x^2+3),x, algorithm="fricas")`

output `Exception raised: TypeError >> Error detected within library code: integrate: implementation incomplete (trace 0)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3072

2.2 Maxima Exceptions

Percentage of integrals which generated an exception is 7.615 %

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{(b-x)(-a+x)} dx = \text{Exception raised: ValueError}$$

input `integrate(((b-x)*(-a+x))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/0_Independent_test_suites/1_Apostol_Problems

Test file number 1

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(b-x)(-a+x)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((b-x)*(-a+x))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/0_Independent_test_suites/1_Apostol_Problems

Test file number 1

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{1 + a \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(1+a*cos(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a^2-1.0>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/0_Independent_test_suites/1_Apostol_Problems

Test file number 1

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c + bx + ax^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*x^2+b*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*sin(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + \cos(x) + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+cos(x)+b*sin(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b^2-a^2+1>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(ax)}{(b + c \sin(ax))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(a*x)/(b+c*sin(a*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(a^x/(b^x),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(-log(b)/log(a)>0)', see `assume?`
` for more
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int a^x b^x dx = \text{Exception raised: ValueError}$$

input

```
integrate(a^x*b^x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(log(b)/log(a)>0)', see `assume?`
` for more
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{r}{\sqrt{-\alpha^2 + 2 \left(\frac{5g_0g_2LL^5}{(L_1+L_2)^{6r^2}} + \frac{g_{10}g_1LL^5}{(L_1+L_2)^{5r^2}} + \frac{g_0g_2LL^6}{L_1(L_1+L_2)^{5r^2}} \right) r^2 - 2kr^4}} dr$$

= Exception raised: ValueError

input

```
integrate(r/(-2*k*r^4+2*e*r^2-alpha^2)^(1/2),r, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(2*alpha^2*k-e^2>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{r}{\sqrt{-\alpha^2 - 2kr + 2 \left(\frac{5g_0g_2LL^5}{(L_1+L_2)^6r^2} + \frac{g_{10}g_1LL^5}{(L_1+L_2)^5r^2} + \frac{g_0g_2LL^6}{L_1(L_1+L_2)^5r^2} \right) r^2}} dr$$

= Exception raised: ValueError

input `integrate(r/(2*e*r^2-alpha^2-2*k*r)^(1/2),r, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k^2+2*alpha^2*e>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{r\sqrt{-\alpha^2 + 2hr^2 - 2kr^4}} dr = \text{Exception raised: ValueError}$$

input `integrate(1/r/(-2*k*r^4+2*h*r^2-alpha^2)^(1/2),r, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*alpha^2*k-h^2>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{r\sqrt{-\alpha^2 - \epsilon^2 + 2hr^2 - 2kr^4}} dr = \text{Exception raised: ValueError}$$

input `integrate(1/r/(-2*k*r^4+2*h*r^2-alpha^2-epsilon^2)^(1/2),r, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*epsilon^2*k+2*alpha^2*k>0)', see `assume``

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{p + q \cos(x) + r \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(p+q*cos(x)+r*sin(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r^2+q^2-p^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/0_Independent_test_suites/8_Jeffrey_Problems

Test file number 8

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{B + Ax}{(c + 2bx + ax^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A*x+B)/(a*x^2+2*b*x+c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{a + 2bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c1*x+b1)/(c*x^2+2*b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{(a + 2bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c1*x+b1)/(c*x^2+2*b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{b_1 + c_1x}{(a + 2bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c1*x+b1)/(c*x^2+2*b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{b1 + c1x}{(a + 2bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c1*x+b1)/(c*x^2+2*b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a*c>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int x \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*cos(x)^4/sin(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int a^{mx} b^{nx} dx = \text{Exception raised: ValueError}$$

input `integrate(a^(m*x)*b^(n*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((log(b)*n)/(log(a)*m)>0)', see `assume?` f`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int a^{-x} b^{-x} (a^x - b^x)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((a^x-b^x)^2/(a^x)/(b^x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-log(b)/log(a)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 583

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a^2 - b^2 \cosh^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a^2-b^2*cosh(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 587

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{mx}}{\cosh(x) + \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(m*x)/(cosh(x)+sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-m>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 603

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(x))^{-n}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/((a+b*log(x))^n),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(-n>0)', see `assume?` for more d
etails)Is
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 621

Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}(1+x)^2\sqrt{-i+x^2}} + \frac{1}{\sqrt{2}(1+x)^2\sqrt{i+x^2}} \right) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/2/(1+x)^2*2^(1/2)/(-I+x^2)^(1/2)+1/2/(1+x)^2*2^(1/2)/(I+x^2)^(
1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 1which is not of the expected type LIST
```

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/0_Independent_test_suites/13_Wester_Problems

Test file number 13

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(5/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4}(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(7/4),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{5/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)/(b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/(b*x+a)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx)\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^3/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^4/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^5 \sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^5/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^3/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^4/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^3(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^3/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^4(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)^4/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)\sqrt[3]{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)/(d*x+c)^(1/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)(c+dx)^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)/(d*x+c)^(2/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a+bx}(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/4)/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{7/2} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(7/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(11/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{(a+bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)/(b*x+a)^(13/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} (c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)/(b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 331

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx}(c + dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 339

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(13/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{15/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/(b*x+a)^(15/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{7/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 348

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 350

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{11/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(11/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{7/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 359

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 360

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{11/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(11/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 361

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{9/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(9/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 362

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{7/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 363

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 364

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c`

Test file number 17

Integral number in file 365

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{7/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{9/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(9/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 371

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{-b+bc}{d} + bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((b*c-b)/d+b*x)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*c-1>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{b-bc}{d} + bx}\sqrt{c-dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((-b*c+b)/d+b*x)^(1/2)/(-d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*c-1>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a-bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(a+bx)(ac-bcx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/2)/(b*x+a)/(-b*c*x+a*c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(7/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(a+bx)^2(ac-bcx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/2)/(b*x+a)^2/(-b*c*x+a*c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{11/2}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(11/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{9/2}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(9/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(7/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1`

Test file number 19

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(a+bx)^3(ac-bcx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/2)/(b*x+a)^3/(-b*c*x+a*c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(ac - bcx)^3}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(-b*c*x+a*c)^3/(e*x)^(13/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^2/(b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/x^3/(b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^4/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/x^2/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^2/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^2/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^3/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^4/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a + bx)^2\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^2/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^3}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^3/(e*x)^(11/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^3}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^3/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2`

Test file number 20

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(c+dx)^3}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^3/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^3}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^3/(e*x)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^3}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^3/(e*x)^(15/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^3}{(ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^3/(e*x)^(17/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a+bx} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a+bx} \sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2`

Test file number 20

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2`

Test file number 20

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a+bx}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{a+bx}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^4\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^5\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^2(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x^3(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{3/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2} \sqrt{c+dx}}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2} \sqrt{c+dx}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2} \sqrt{c+dx}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} \sqrt{c + dx}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{3/2}(c+dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{3/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{3/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{3/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{3/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^2 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^3 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^4 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^5 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx)^{3/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^4(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^4/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{3/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{x^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int x^2(a+bx)^{5/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{5/2}\sqrt{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} \sqrt{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2} \sqrt{c+dx}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2} \sqrt{c+dx}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} \sqrt{c + dx}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + bx)^{5/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int x(a + bx)^{5/2}(c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (c + dx)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int x(a+bx)^{5/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{5/2}(c+dx)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx)^{5/2}}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)/x/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^2 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^4 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^5 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{5/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 305

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^4(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^5(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx)^{5/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^3/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^4(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)/x^4/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^5(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)/x^5/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^2\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^3\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{x^4\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{3/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^3 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{x^4\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{x^5\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^5/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 331

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^5 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 339

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^6 \sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^6/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2`

Test file number 20

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + bx} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 \sqrt{a + bx} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 348

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 350

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 359

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 360

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-a-bx}\sqrt{1+a+bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(-b*x-a+1)^(1/2)/(b*x+a+1)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 371

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^2(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^2/(b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 372

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^3(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)/x^3/(b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x^4(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/x^4/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 378

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 380

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^5(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2`

Test file number 20

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx)^{3/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 390

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx)^{3/2}(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 391

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 392

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{3/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^{5/2}}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 404

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 405

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 406

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^3(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^3/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 407

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^4(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^4/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 408

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^5(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)/x^5/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 409

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx)^{5/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 410

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^6/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 411

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 412

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 413

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 414

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 415

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 416

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 417

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 418

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 419

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx)^{5/2}(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 420

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 421

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 422

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{-a-bx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x+a)^(1/2)/(-b*x-a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 423

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{7/2}}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)/(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)/(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)/(e*x+d)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)/(e*x+d)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c`

Test file number 21

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2 \sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2 (d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2 (d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^2(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^2/(e*x+d)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3 (d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^3(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^3/(e*x+d)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)(d+ex)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)*(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c`

Test file number 21

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)(d+ex)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)*(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(A+Bx)\sqrt{d+ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)*(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx)}{(d+ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(B*x+A)/(e*x+d)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{3/2}(A+Bx)(d+ex)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(A + Bx)(d + ex)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2}(A + Bx)\sqrt{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)*(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(9/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(A + Bx)}{(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(11/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx)}{(d+ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(B*x+A)/(e*x+d)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (A + Bx) (d + ex)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (A + Bx) (d + ex)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2}(A + Bx)\sqrt{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)*(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c`

Test file number 21

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c`

Test file number 21

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(15/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(A + Bx)}{(d + ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(B*x+A)/(e*x+d)^(17/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c`

Test file number 21

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx}(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(1/2)/(e*x+d)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{3/2}(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(3/2)/(e*x+d)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(1/2)/(b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2} \sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2} (d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx)^{5/2}(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(b*x+a)^(5/2)/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e-b*d)>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(e+fx)^{5/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 481

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{e + fx}}{c + dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(c + dx)(e + fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(e + fx)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^2*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 490

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2 \sqrt{e+fx}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(c+dx)\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)(e + fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)(e + fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)(e + fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3 (e + fx)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^3*(f*x+e)^(5/2)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3(e+fx)^{3/2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(3/2)/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 498

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3\sqrt{e+fx}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(1/2)/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 499

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 500

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)(e + fx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)(e + fx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3}{(c + dx)(e + fx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^3/(d*x+c)/(f*x+e)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^2/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^4}{(a + bx)(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^4/(b*x+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{(c + dx)^2 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 705

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + bx} \sqrt{ac - bcx} (e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 849

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{ac-bcx}(e+fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 850

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx}\sqrt{ac-bcx}(e+fx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 851

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{ac-bcx}}{(e+fx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(-b*c*x+a*c)^(1/2)/(f*x+e)^3,x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 852

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(ac-bcx)^{3/2}}{(e+fx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(-b*c*x+a*c)^(3/2)/(f*x+e)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 853

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}(ac-bcx)^{5/2}}{(e+fx)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(-b*c*x+a*c)^(5/2)/(f*x+e)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 854

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{(a-bx)^{3/2}(e+fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(-b*x+a)^(3/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 862

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{(a-bx)^{3/2}(e+fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)/(-b*x+a)^(3/2)/(f*x+e)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 863

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(a - bx)^{3/2}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)/(-b*x+a)^(3/2)/(f*x+e)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 864

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}(e+fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(1/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 902

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}(e+fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(1/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 903

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}(bc - 2ad - bdx)^3}{(a + bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(-b*d*x-2*a*d+b*c)^3/(b*x+a)^(13/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 991

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + bx}(e + fx)\sqrt{2be - af + bfx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x+a)^(1/2)/(f*x+e)/(b*f*x-a*f+2*b*e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 1121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}(e + fx)^2}{(a + bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(f*x+e)^2/(b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 1184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}(e+fx)}{(a+bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(f*x+e)/(b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{(a+bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)/(b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{7/2}(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(7/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{(a + bx)^{7/2}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(7/2)/(f*x+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*d)/f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{e + fx}(g + hx)}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{e + fx}(g + hx)}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{e + fx}(g + hx)}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{e + fx}(g + hx)}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{e + fx}(g + hx)}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 \sqrt{e + fx}(g + hx)}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(1/2)*(h*x+g)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 \sqrt{e + fx}(g + hx)}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 \sqrt{e + fx}(g + hx)}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 \sqrt{e + fx}(g + hx)}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2 \sqrt{e+fx}(g+hx)}{(a+bx)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)/x/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)/x/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)}{x(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)/x/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(f*x+e)/x/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(f*x+e)/x/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(e+fx)}{x(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(f*x+e)/x/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3 \sqrt{e+fx}(g+hx)}{c+dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^3*(f*x+e)^(1/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2 \sqrt{e + fx}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(1/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{e + fx}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(1/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^2(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^3(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^3/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^4(c+dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^4/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^5(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^5/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3 \sqrt{e+fx}(g+hx)}{(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2 \sqrt{e + fx}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{e + fx}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)/(d*x+c)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^2(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2/(d*x+c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^3(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^3/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^4(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^4/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^5(c+dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^5/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3 \sqrt{e+fx}(g+hx)}{(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2 \sqrt{e + fx}(g + hx)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx) \sqrt{e + fx}(g + hx)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(1/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(1/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^2(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^3(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^3/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^4(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^4/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}(g+hx)}{(a+bx)^5(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)*(h*x+g)/(b*x+a)^5/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)(e+fx)^{3/2}(g+hx)}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(e + fx)^{3/2}(g + hx)}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(e + fx)^{3/2}(g + hx)}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(e + fx)^{3/2}(g + hx)}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(e + fx)^{3/2}(g + hx)}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(e + fx)^{3/2}(g + hx)}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(3/2)*(h*x+g)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2(e+fx)^{3/2}(g+hx)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2(e+fx)^{3/2}(g+hx)}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2(e+fx)^{3/2}(g+hx)}{(a+bx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(e + fx)^{3/2}(g + hx)}{(a + bx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(e + fx)^{3/2}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(3/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(e + fx)^{3/2}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(3/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(e + fx)^{3/2}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(3/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^3(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^3/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^4(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^4/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^5(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^5/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(e + fx)^{3/2}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(e + fx)^{3/2}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(e + fx)^{3/2}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(3/2)*(h*x+g)/(d*x+c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^2(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^3(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^3/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^4(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^4/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^5(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^5/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(e + fx)^{3/2}(g + hx)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(e + fx)^{3/2}(g + hx)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^2*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(e+fx)^{3/2}(g+hx)}{(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(f*x+e)^(3/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e+fx)^{3/2}(g+hx)}{(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^2(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^3(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^3/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^4(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^4/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}(g + hx)}{(a + bx)^5(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(3/2)*(h*x+g)/(b*x+a)^5/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^4 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^4/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^5 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^5/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2*(h*x+g)/(b*x+a)^2/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^3\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^4\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^4/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^5\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^5/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(g + hx)}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(g + hx)}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(h*x+g)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(g + hx)}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^3/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5(c + dx)\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^5/(d*x+c)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(g + hx)}{(c + dx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(g + hx)}{(c + dx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^2*(h*x+g)/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(g+hx)}{(c+dx)^2\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{g+hx}{(c+dx)^2\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)^2 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2(c + dx)^2 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3(c + dx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^3/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)^2\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5 (c + dx)^2 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)^5/(d*x+c)^2/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^3(g+hx)}{(c+dx)^3\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2(g+hx)}{(c+dx)^3\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(h*x+g)/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(g + hx)}{(c + dx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(c + dx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2 (c + dx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3 (c + dx)^3 \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)^3/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)^3\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5(c + dx)^3\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^5/(d*x+c)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^4(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)*(h*x+g)/(b*x+a)^4/(f*x+e)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(g + hx)}{(a + bx)^5(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)*(h*x+g)/(b*x+a)^5/(f*x+e)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)/(f*x+e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^4(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^4/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(g + hx)}{(a + bx)^5(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2*(h*x+g)/(b*x+a)^5/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(g + hx)}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(g + hx)}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^2*(h*x+g)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(g + hx)}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^3/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5 (c + dx) (e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)^5/(d*x+c)/(f*x+e)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(g + hx)}{(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(g + hx)}{(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(h*x+g)/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(g + hx)}{(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)^3/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5(c + dx)^2(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^5/(d*x+c)^2/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^3(g + hx)}{(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^3*(h*x+g)/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2(g + hx)}{(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(h*x+g)/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(g + hx)}{(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(h*x+g)/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^2(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^2/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*f-b*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^3(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^3/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^4(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^4/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)^5(c + dx)^3(e + fx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)^5/(d*x+c)^3/(f*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2} \sqrt{e+fx}(g+hx)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(f*x+e)^(1/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)^{3/2}(g+hx)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)^(3/2)*(h*x+g)/(b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} (e + fx)(g + hx) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)*(f*x+e)*(h*x+g),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx}(e+fx)(g+hx) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)*(f*x+e)*(h*x+g),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(5/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(7/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)(g+hx)}{(a+bx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)*(h*x+g)/(b*x+a)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e+fx)^{5/3}(g+hx)}{(a+bx)(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(5/3)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{2/3}(g + hx)}{(a + bx)(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^(2/3)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)\sqrt[3]{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(1/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)(e + fx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)(e + fx)^{7/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(7/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{4/3}(g + hx)}{(a + bx)(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(4/3)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{e+fx}(g+hx)}{(a+bx)(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/3)*(h*x+g)/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{g+hx}{(a+bx)(c+dx)(e+fx)^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(2/3),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)(e + fx)^{5/3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(5/3),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx)(c + dx)(e + fx)^{8/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(b*x+a)/(d*x+c)/(f*x+e)^(8/3),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{e + fx}(g + hx)}{(a + bx)^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/3)*(h*x+g)/(b*x+a)^2/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e+fx)^2(g+hx)}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)^2*(h*x+g)/(b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(e^2g + e(2fg + eh)x + f(fg + 2eh)x^2 + f^2hx^3)}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(e^2*g+e*(e*h+2*f*g)*x+f*(2*e*h+f*g)*x^2+f^2*h*x^3)/(b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{a+bx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}(A+Bx+Cx^2+Dx^3)}{a+bx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^2,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^3,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^4 \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(1/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{3/2}(A+Bx+Cx^2+Dx^3) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx}(A+Bx+Cx^2+Dx^3) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int (a+bx)^{3/2}(c+dx)^{3/2}(A+Bx+Cx^2+Dx^3) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} (A + Bx + Cx^2 + Dx^3) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx+Cx^2+Dx^3)}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{15/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(15/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} \sqrt{c + dx} (A + Bx + Cx^2 + Dx^3) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{17/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(17/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(c + dx)^{19/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^(19/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{\sqrt{a + bx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{\sqrt{a+bx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2+Dx^3}{\sqrt{a+bx}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{\sqrt{a + bx}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{\sqrt{a + bx}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{\sqrt{a + bx}(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2)/(d*x+c)^(7/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{\sqrt{a + bx}(c + dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(1/2)/(d*x+c)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{3/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(1/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{3/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{3/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{3/2}(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2+Dx^3}{(a+bx)^{5/2}\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{5/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{5/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^{5/2}(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^(5/2)/(d*x+c)^(7/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3 + Fx^4}{(a + bx)^{3/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((F*x^4+D*x^3+C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{c + dx}(A + Bx + Cx^2 + Dx^3)}{a + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/3)*(D*x^3+C*x^2+B*x+A)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/3)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{c+dx}(A+Bx+Cx^2+Dx^3)}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/3)*(D*x^3+C*x^2+B*x+A)/(b*x+a)^3,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{2/3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(2/3),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(2/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(2/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6`

Test file number 26

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^2(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(a + bx)^3(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{e+fx} dx = \text{Exception raised: ValueError}$$

input `integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{(e+fx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^2,x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{(e+fx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^3,x, algorithm
m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((f-d*e)*(f+d*e)>0)', see `assume
?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2}{\sqrt{1-dx}\sqrt{1+dx}(e+fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e),x, algorithm=
"maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e)^2,x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e)^3,x, algorithm m="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((f-d*e)*(f+d*e)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{ac-bcx}(A+Bx+Cx^2)}{e+fx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(-b*c*x+a*c)^(1/2)*(C*x^2+B*x+A)/(f*x+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{ac-bcx}(A+Bx+Cx^2)}{(e+fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(-b*c*x+a*c)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{ac-bcx}(A+Bx+Cx^2)}{(e+fx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(-b*c*x+a*c)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*b^2*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((4*b^2*c>0)', see `assume?` for
more detai
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{a + bx}\sqrt{ac - bcx}(e + fx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((C*x^2+B*x+A)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e)^3,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*f-b*e)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{-1 + x}\sqrt{1 + x}(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(-1+x)^(1/2)/(1+x)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-d)*(e+d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{c + dx} \sqrt{e + fx} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f+d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)\sqrt{c + dx}\sqrt{e + fx}(A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f+d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + dx}\sqrt{e + fx}(A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f+d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{a+bx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A)/(b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see `assume?` for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{(a+bx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A)/(b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(2*a*d*f-b*c*f>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{(a+bx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A)/(b*x+a)^3,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*d-b*c)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2 \sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^2*(d*x+c)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)\sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(d*x+c)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see `assu
me?` for m
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^2\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(b*x+a)^2/(f*x+e)^(1/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see `assu
me?` for m
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^3\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(b*x+a)^3/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see `assume?` for m`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)^4\sqrt{e+fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(b*x+a)^4/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*d-b*c)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2 (A + Bx + Cx^2)}{\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^2*(C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(A + Bx + Cx^2)}{\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((C*x^2+B*x+A)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see `assume?` for m`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^2\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*a*d*f)/b^2)>0)', see `assume?` for m`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^3 \sqrt{c + dx} \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a*d-b*c)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^4 \sqrt{c + dx} \sqrt{e + fx}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a*d-b*c)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a + ax^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a*x^2+a-1),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-c-d+(c-d)x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-c-d+(c-d)*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a+(b-ac)x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+(-a*c+b)*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*c-b>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - (b - ac)x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-(-a*c+b)*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*c-b>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c(a - d) - (b - c)x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*(a-d)-(b-c)*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c-b)*(d-a)>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 919

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 920

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+dx^2}}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 921

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 930

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 931

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 940

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 941

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx^2)\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 950

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx^2)\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 951

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 952

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a+bx^2)\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 953

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx^2)(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 961

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 962

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 963

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 964

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 973

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx^2)(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^7/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 974

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 975

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 976

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4`

Test file number 32

Integral number in file 977

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c + dx^2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+dx^2}}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x^2+c)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 990

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx^2)^{3/2}}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{3/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(d*x^2+c)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 999

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(c + dx^2)^{5/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^2+c)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1006

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + dx^2)^{5/2}}{(a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x^2+c)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1008

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^2 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4`

Test file number 32

Integral number in file 1015

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^2 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^2/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1017

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^2 (c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1024

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^2 (c + dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^2/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1026

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^2 (c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(b*x^2+a)^2/(d*x^2+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1033

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^2 (c + dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^2/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1035

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1167

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1168

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx^2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1169

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(1/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1170

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x^3\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(1/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1171

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x^5\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^(1/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1172

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^2)^{3/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1178

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx^2)^{3/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1179

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{3/2}}{\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(3/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^3 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(3/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^5 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(3/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1183

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^2)^{5/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1189

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx^2)^{5/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1190

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a+bx^2)^{5/2}}{\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(5/2)/x/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^3\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(5/2)/x^3/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^5 \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(5/2)/x^5/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1194

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1204

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + bx^2}\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1205

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1206

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2}\sqrt{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1207

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a + bx^2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1208

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{a + bx^2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1209

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1215

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1216

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{3/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(b*x^2+a)^(3/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1217

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1218

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1219

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{5/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^(5/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1220

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1221

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1222

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2)^{7/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^(7/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1223

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2)^{9/2} \sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(b*x^2+a)^(9/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1224

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a - bx^2}\sqrt{c + dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(-b*x^2+a)^(1/2)/(d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1225

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a - bx^2}\sqrt{c - dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(-b*x^2+a)^(1/2)/(-d*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)/(f*x^2+e)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^2}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^2/(f*x^2+e)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)(c + dx^2)^3}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)*(d*x^2+c)^3/(f*x^2+e)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)^2(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)^2 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(c + dx^2)^3 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^2*(d*x^2+c)^2/(f*x^2+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^2}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^2}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^2}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^2/(f*x^2+e)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^3}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^3/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^3}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2*(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2 (c + dx^2)^3}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^2*(d*x^2+c)^3/(f*x^2+e)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)^2(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)^2(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)^2 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(c + dx^2)^3 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3 (c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^3*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3 (c + dx^2)^3}{(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3*(d*x^2+c)^3/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3 (c + dx^2)^3}{(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3*(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3 (c + dx^2)^3}{(e + fx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3*(d*x^2+c)^3/(f*x^2+e)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5`

Test file number 33

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3/(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3/(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3/(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)^2 (e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^3/(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)^2 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3/(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^3}{(c + dx^2)^3 (e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^3/(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)(c + dx^2)(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)/(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)(c + dx^2)(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)/(d*x^2+c)/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)(c + dx^2)(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)/(d*x^2+c)/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)(c + dx^2)^2(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)/(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a+bx^2)(c+dx^2)^2(e+fx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x^2+a)/(d*x^2+c)^2/(f*x^2+e)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)(c + dx^2)^3(e + fx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)/(d*x^2+c)^3/(f*x^2+e)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^2)^2(c + dx^2)^2(e + fx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+a)^2/(d*x^2+c)^2/(f*x^2+e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(c + dx^2)}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(c+dx^2)^3}{e+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx^2)^{3/2}(c+dx^2)}{e+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(3/2)*(d*x^2+c)/(f*x^2+e),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^(3/2)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^(3/2)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx^2}{\sqrt{a + bx^2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^2}{\sqrt{a + bx^2}(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^2/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{\sqrt{a + bx^2}(e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^3/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx^2}{(a + bx^2)^{3/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)/(b*x^2+a)^(3/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^2}{(a + bx^2)^{3/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^2/(b*x^2+a)^(3/2)/(f*x^2+e),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{(a + bx^2)^{3/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x^2+c)^3/(b*x^2+a)^(3/2)/(f*x^2+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx^2}{(a + bx^2)^{5/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)/(b*x^2+a)^(5/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 361

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^2}{(a + bx^2)^{5/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^2/(b*x^2+a)^(5/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{(a + bx^2)^{5/2} (e + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^3/(b*x^2+a)^(5/2)/(f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A + Bx^2 + Cx^4 + Dx^6)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(D*x^6+C*x^4+B*x^2+A)/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx^2 + Cx^4 + Dx^6)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(D*x^6+C*x^4+B*x^2+A)/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4 + Dx^6}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^6+C*x^4+B*x^2+A)/(e*x^2+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/36_1.1.2.8

Test file number 36

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4 + Dx^6}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((D*x^6+C*x^4+B*x^2+A)/x^2/(e*x^2+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/36_1.1.2.8

Test file number 36

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4 + Dx^6}{x^4(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^6+C*x^4+B*x^2+A)/x^4/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4 + Dx^6}{x^6(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^6+C*x^4+B*x^2+A)/x^6/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4 + Dx^6}{x^8 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((D*x^6+C*x^4+B*x^2+A)/x^8/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8`

Test file number 36

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a + bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^3+a-1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/40_1.1.3.1_a

Test file number 40

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a - bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-b*x^3+a-1),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/40_1.1.3.1_a

Test file number 40

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^n}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)/x^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-2>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^n}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*x^n)/x^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-3>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 350

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^3/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^3/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-1-2n}}{(a+bx^n)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(-1-2*n)/(a+b*x^n)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt{c+dx^3}}{a+bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 531

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^3}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 532

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^3}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x^3+c)^(1/2)/(b*x^3+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 533

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(c+dx^3)^{3/2}}{a+bx^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^8*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 541

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(c + dx^3)^{3/2}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 542

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^3)^{3/2}}{a + bx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x^3+c)^(3/2)/(b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 543

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 551

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 552

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)\sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 553

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 561

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 562

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)(c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)/(d*x^3+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 563

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 633

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 634

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^3}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(d*x^3+c)^(1/2)/(b*x^3+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 635

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 643

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 644

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^3)^{3/2}}{(a + bx^3)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(d*x^3+c)^(3/2)/(b*x^3+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 645

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a+bx^3)^2 \sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 653

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx^3)^2 \sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 654

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^2 \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^2/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 655

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 663

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 664

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^2 (c + dx^3)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^2/(d*x^3+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 665

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11} \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^11*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 673

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 674

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 675

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt[3]{a + bx^3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 676

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 692

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 693

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 694

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^3)^{2/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 695

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(a+bx^3)^{4/3}}{c+dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 711

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^3)^{4/3}}{c+dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 712

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^3)^{4/3}}{c + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 713

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{\sqrt[3]{a + bx^3}(c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 729

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 730

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 731

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 732

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt[3]{a+bx^3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^(1/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 733

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a+bx^3)^{2/3}(c+dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 747

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 748

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^{2/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^(2/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^11/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3)^{4/3} (c + dx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^(4/3)/(d*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^3} \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 872

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx^3}\sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 873

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^3}\sqrt{c+dx^3}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 874

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 \sqrt{a + bx^3} \sqrt{c + dx^3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^4/(b*x^3+a)^(1/2)/(d*x^3+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 875

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11} \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^4) \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^15/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^4)^2 \sqrt{c + dx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(b*x^4+a)^2/(d*x^4+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{17}}{(a + bx^6) \sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^17/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^6)\sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^6)\sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^6+a)/(d*x^6+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{17}}{(a + bx^6)^2 \sqrt{c + dx^6}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^17/(b*x^6+a)^2/(d*x^6+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a+bx^6)^2 \sqrt{c+dx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(b*x^6+a)^2/(d*x^6+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx^6)^2 \sqrt{c+dx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(b*x^6+a)^2/(d*x^6+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{23}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^23/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^15/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{23}}{(a + bx^8)^2\sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^23/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{15}}{(a + bx^8)^2 \sqrt{c + dx^8}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^15/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a+bx^8)^2 \sqrt{c+dx^8}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(b*x^8+a)^2/(d*x^8+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx^n)(A+Bx^n)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)(A + Bx^n)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)(A + Bx^n)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-4>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2 (A + Bx^n)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2*(A+B*x^n)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2 (A + Bx^n)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2*(A+B*x^n)/x^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-3>0)', see `assume?` for more
details)Is
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2 (A + Bx^n)}{x^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*x^n)^2*(A+B*x^n)/x^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-4>0)', see `assume?` for more
details)Is
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)(A + Bx^n)}{x^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3/2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)(A + Bx^n)}{x^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-5/2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)(A + Bx^n)}{x^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)*(A+B*x^n)/x^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-7/2>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2(A + Bx^n)}{x^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2*(A+B*x^n)/x^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-3/2>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2 (A + Bx^n)}{x^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2*(A+B*x^n)/x^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-5/2>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^2 (A + Bx^n)}{x^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^2*(A+B*x^n)/x^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-7/2>0)', see `assume?` for mor
e details)
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3 (A + Bx^n)}{x^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*x^n)^3*(A+B*x^n)/x^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(n-3/2>0)', see `assume?` for mor
e details)
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3 (A + Bx^n)}{x^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^3*(A+B*x^n)/x^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-5/2>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^3 (A + Bx^n)}{x^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^n)^3*(A+B*x^n)/x^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n-7/2>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x^3+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{d - ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(-e*x^3+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x^3+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^3}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^3/(e*x^3+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^4}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^4/(e*x^3+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{bx + cx^2}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)/(e*x^3+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{d - ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(-e*x^3+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/61_1.1.3.7_a

Test file number 61

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{1-x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)/(-x^2+1),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c-4*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(a+bx^2)}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{5/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(5/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{7/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(7/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{5/2}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(5/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{5/2}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)/(e*x)^(5/2)/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)^2}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)^2}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)^2}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 348

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)^2}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 350

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2}(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(a + bx^2)^2}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a+bx^2)^2}{(c+dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2}(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 359

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 372

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(1/2)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{ex}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(1/2)/(b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{3/2}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(3/2)/(b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{5/2} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(5/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{7/2} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(7/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 378

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)^2}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)^2}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 380

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{\sqrt{ex}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2/(e*x)^(1/2)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{3/2}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(3/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{5/2}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(5/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{7/2} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(7/2)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - x}{\sqrt{ex} (1 + x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((1-x)/(e*x)^(1/2)/(x^2+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(1/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 390

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/2)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 391

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^2(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 392

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^2(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^2(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)^2(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x)^(1/2)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^2(ax+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^3(ax+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^3/(b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^3(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^3/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 398

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^3(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)^3/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)^3(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)^3/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^3(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^3/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}(c+dx)}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(7/2)*(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}(c+dx)}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 404

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 405

Maxima [F(-2)]

Exception generated.

$$\int \frac{c+dx}{\sqrt{ex}(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 406

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{3/2} (a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 407

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{5/2} (a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 408

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}(c+dx)^2}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(5/2)*(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 409

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)^2}{(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 410

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2}{\sqrt{ex}(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(1/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 411

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{3/2} (a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(3/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 412

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{5/2} (a + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(5/2)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 413

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 414

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 415

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(1/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 416

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 417

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 418

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(c+dx)(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/2)/(d*x+c)/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 419

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(7/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 420

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 421

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 422

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(1/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 423

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 424

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^2(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^2/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 425

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(7/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 426

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 427

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 428

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 429

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e}x(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x)^(1/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 430

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^3(a+bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^3/(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 431

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{9/2}(c+dx)}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(9/2)*(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 432

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}(c+dx)}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(7/2)*(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 433

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}(c+dx)}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 434

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 435

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 436

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{ex}(a + bx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)/(e*x)^(1/2)/(b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 437

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{3/2} (a + bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(3/2)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 438

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{5/2} (a + bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(5/2)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 439

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}(c+dx)^2}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 440

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)^2}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 441

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)^2}{(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 442

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2}{\sqrt{ex}(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(1/2)/(b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 443

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{3/2} (a + bx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2/(e*x)^(3/2)/(b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(7/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 445

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 446

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 447

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 448

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}(c+dx)(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x)^(5/2)/(d*x+c)/(b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^2(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^2(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^2(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)^2(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^2(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^2/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{(c+dx)^3(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^3/(b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{(c+dx)^3(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)/(d*x+c)^3/(b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(c+dx)^3(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)/(d*x+c)^3/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}(c+dx)^3(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)^3/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2}(c+dx)^3(a+bx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(3/2)/(d*x+c)^3/(b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 461

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{5/2}\sqrt{c+dx}(a+bx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(d*x+c)^(1/2)*(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 742

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{3/2} \sqrt{c+dx} (a+bx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(1/2)*(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 743

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ex} \sqrt{c+dx} (a+bx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(1/2)*(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 744

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{\sqrt{ex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 745

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 746

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 747

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 748

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)/(e*x)^(13/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 751

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{3/2}(c+dx)^{3/2}(a+bx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)*(d*x+c)^(3/2)*(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 752

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ex}(c+dx)^{3/2}(a+bx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(3/2)*(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 753

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}(a+bx^2)}{\sqrt{ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 754

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 755

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 756

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 757

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(9/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 758

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(11/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 759

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 760

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)/(e*x)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 761

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{5/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{7/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{9/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(9/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 769

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{11/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(11/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 770

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{13/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(13/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 771

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 772

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 773

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 774

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{5/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{7/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{9/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(9/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2} (a + bx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(7/2)*(b*x^2+a)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 783

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{\sqrt{ex}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 784

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{3/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 785

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2}{(ex)^{7/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)/(e*x)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 787

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{3/2} \sqrt{c+dx} (a+bx^2)^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(3/2)*(d*x+c)^(1/2)*(b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 788

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ex}\sqrt{c+dx}(a+bx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(1/2)*(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 789

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{\sqrt{ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 790

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(9/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(11/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 795

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 796

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 797

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(a+bx^2)^2}{(ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(1/2)*(b*x^2+a)^2/(e*x)^(17/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 798

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{3/2}(c+dx)^{3/2}(a+bx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(3/2)*(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 799

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ex}(c + dx)^{3/2} (a + bx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(3/2)*(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 800

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{\sqrt{ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 801

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 802

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 803

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 804

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 805

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 806

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 807

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(15/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 808

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(17/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 809

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2} (a + bx^2)^2}{(ex)^{19/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(3/2)*(b*x^2+a)^2/(e*x)^(19/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 810

Maxima [F(-2)]

Exception generated.

$$\int (ex)^{3/2} (c + dx)^{5/2} (a + bx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(5/2)*(b*x^2+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 811

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ex}(c+dx)^{5/2}(a+bx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(5/2)*(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 812

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}(a+bx^2)^2}{\sqrt{ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 813

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 814

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 815

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 816

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 817

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 818

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 819

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 820

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(17/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 821

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{19/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(19/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 822

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2} (a + bx^2)^2}{(ex)^{21/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^(5/2)*(b*x^2+a)^2/(e*x)^(21/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 823

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)^2}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 824

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)^2}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 825

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 826

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 827

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 828

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 829

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{9/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^2/(e*x)^(9/2)/(d*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 830

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{11/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(11/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 831

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{13/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(13/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 832

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{15/2} \sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(15/2)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 833

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)^2}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(5/2)*(b*x^2+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 834

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)^2}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 835

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)^2}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 836

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 837

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 838

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 839

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 840

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{9/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(9/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 841

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{11/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(11/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 842

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{13/2}(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(13/2)/(d*x+c)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 843

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (a + bx^2)^2}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(5/2)*(b*x^2+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 844

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (a + bx^2)^2}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(3/2)*(b*x^2+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 845

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(a + bx^2)^2}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/2)*(b*x^2+a)^2/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 846

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{\sqrt{ex}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(1/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 847

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{3/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(3/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 848

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{5/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(5/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 849

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{7/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(7/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 850

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{9/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a)^2/(e*x)^(9/2)/(d*x+c)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 851

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^2}{(ex)^{11/2}(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a)^2/(e*x)^(11/2)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 852

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{4/3}(c + dx)}{a + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(4/3)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 941

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{ex}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/3)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 942

Maxima [F(-2)]

Exception generated.

$$\int \frac{c+dx}{(ex)^{2/3}(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(2/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 943

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{5/3} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(5/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 944

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{8/3} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(8/3)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 945

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/3}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(5/3)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 946

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{2/3}(c+dx)}{a+bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(2/3)*(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 947

Maxima [F(-2)]

Exception generated.

$$\int \frac{c+dx}{\sqrt[3]{ex}(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(1/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 948

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{4/3} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(4/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 949

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(ex)^{7/3} (a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(e*x)^(7/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 950

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(ex)^{2/3}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(e*x)^(2/3)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 951

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(ex)^{2/3}(a + bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^3/(e*x)^(2/3)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 952

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/3}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(7/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 953

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{4/3}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(4/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 954

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{ex}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(1/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 955

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{2/3}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(2/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 956

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/3}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(5/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 957

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{8/3}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(8/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 958

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{8/3}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(8/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 959

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/3}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x)^(5/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 960

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ex)^{2/3}}{(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x)^(2/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 961

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{ex}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(1/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 962

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{4/3}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(4/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 963

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{7/3}(c+dx)(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x)^(7/3)/(d*x+c)/(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 964

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{2/3}(c+dx)^2(a+bx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x)^(2/3)/(d*x+c)^2/(b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 965

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(-bc^3 + b(c+dx^n)^3)^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(-b*c^3+b*(c+d*x^n)^3)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/76_1.1.5.1`

Test file number 76

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3`

Test file number 78

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{\frac{e(a+bx^2)}{c+dx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(ax^2+b)}{c+dx^2}}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int x^5 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int x^3 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int x \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{\frac{e(ax^2+b)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{\frac{e(ax^2+b)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3`

Test file number 78

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(\frac{e(ax^2+b)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \left(\frac{e(ax^2+b)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{7/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(11/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{9/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(7/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x)^(5/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2\sqrt{bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3`

Test file number 81

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(c*x^2+b*x)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3`

Test file number 81

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/81_1.1.6.3`

Test file number 81

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{ax + bx^2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(b*x^2+a*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ax + bx^2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^2+a*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{ax + bx^2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a*x)^(1/2)/(d*x+c)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x(a + bx)}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((x*(b*x+a))^(1/2)/x/(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{cx + dx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x^2+c*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x(a + bx)}}{cx + dx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((x*(b*x+a))^(1/2)/(d*x^2+c*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(3/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(3/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x^2+a*x)^(3/2)/x/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ax + bx^2)^{3/2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^2+a*x)^(3/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{3/2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(3/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(3/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ax + bx^2)^{3/2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(b*x^2+a*x)^(3/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{3/2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+a*x)^(3/2)/(d*x+c)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{(c + dx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(3/2)/(d*x+c)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(b*x^2+a*x)^(5/2)/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(5/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x^2+a*x)^(5/2)/x/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a/d-(2*b*c)/d^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a/d-(2*b*c)/d^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a/d-(2*b*c)/d^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+dx)^2 \sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((a/d-(2*b*c)/d^2)^2>0)', see `as-
sume?` for
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5`

Test file number 83

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)^2\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((a/d-(2*b*c)/d^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c+dx)^2\sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^2 \sqrt{ax+bx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6 Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)\sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A+Bx)\sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)\sqrt{ax+bx^2}}{c+dx} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7`

Test file number 85

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7`

Test file number 85

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)\sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-2*b*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1`

Test file number 88

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + cx + bx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+c*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-4*a*b>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{b + 2ax + bx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(b*x^2+2*a*x+b),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + cx + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+c*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-4*a*b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(b + 2ax + bx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x^2+2*a*x+b)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(\frac{a}{b}\right)^{2/n} + x^2 - 2\left(\frac{a}{b}\right)^{1/n} x \cos\left(\frac{\pi-2k\pi}{n}\right)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((a/b)^(2/n)+x^2-2*(a/b)^(1/n)*x*cos((-2*pi*k+pi)/n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1>0)', see `assume?` for more details)Is 1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{bx + c(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+c*(e*x+d)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*d*e+b>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + c(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x+c*(e*x+d)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c*e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{(b-x)(-a+x)} dx = \text{Exception raised: ValueError}$$

input `integrate(((b-x)*(-a+x))^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(b-x)(-a+x)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/((b-x)*(-a+x))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/88_1.2.1.1

Test file number 88

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a`

Test file number 89

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a`

Test file number 89

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a`

Test file number 89

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(c*x^2+b*x+a)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx+cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx+cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{3/2}(a+bx+cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{1}{x} - \frac{1}{x\sqrt{1+bx+cx^2}} \right) dx = \text{Exception raised: ValueError}$$

input `integrate(1/x-1/x/(c*x^2+b*x+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c-b^2>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/89_1.2.1.2_a

Test file number 89

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b`

Test file number 90

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(a^2+2abx+b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{11/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2} (a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{15/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(15/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(13/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{11/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b`

Test file number 90

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2} (a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 \sqrt{cd^2 + 2cdex + ce^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{cd^2 + 2cdex + ce^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{cd^2 + 2cdex + ce^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cd^2 + 2cdex + ce^2x^2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b`

Test file number 90

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b`

Test file number 90

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int (cd^2 + 2cdex + ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```


input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (cd^2 + 2cdex + ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int (cd^2 + 2cdex + ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima
")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cd^2 + 2cdex + ce^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate(((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 305

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{a^2+2abx+b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a^2+2abx+b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a^2+2abx+b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{\frac{b^2}{4c}+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(2/(e*x+d)/(b^2/c+4*b*x+4*c*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b`

Test file number 90

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` for or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{ade+(cd^2+ae^2)x+cdex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex}(ade + (cd^2 + ae^2)x + cdex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2}(ade+(cd^2+ae^2)x+cde^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{5/2}(ade+(cd^2+ae^2)x+cde^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{7/2}(ade+(cd^2+ae^2)x+cde x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(13/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(11/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(ade+(cd^2+ae^2)x+cde x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex}}{(ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^{3/2} (ade + (cd^2 + ae^2)x + cdex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^2,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{15/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(15/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{13/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(13/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{11/2}}{(ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(11/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{9/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(9/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{7/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(7/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}}{(ade+(cd^2+ae^2)x+cde x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex} (ade + (cd^2 + ae^2)x + cdex^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^(1/2)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^3,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int (ade + (cd^2 + ae^2)x + cdex^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^4,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int (ade + (cd^2 + ae^2)x + cdex^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^3,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^8,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{7/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int (ade + (cd^2 + ae^2)x + cdex^2)^{7/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^6,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^9,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^10,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^11,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^12,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^6}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^6/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex) \sqrt{\frac{-cd^2+bde}{e^2} + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/((b*d*e-c*d^2)/e^2+b*x+c*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{10}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^10/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^8}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^8/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{15/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^(15/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{13/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(13/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{17/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(17/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{15/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(15/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{13/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^(13/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{11/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(11/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{9/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(9/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{7/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{5/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^{3/2}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bd + 2cdx}}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{bd + 2cdx} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^(1/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{3/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{5/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(5/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^{7/2} (a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^(7/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{bd+2cdx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^5 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^5*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{bd + 2cdx} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(bd + 2cdx)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(2*c*d*x+b*d)^10,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^5 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^5*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^4 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int (bd + 2cdx)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{bd + 2cdx} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^10,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{11}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^11,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(bd + 2cdx)^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(2*c*d*x+b*d)^12,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^6}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*d*x+b*d)^6/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^5}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^5/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^3}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd + 2cdx)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^3 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(2*c*d*x+b*d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(bd + 2cdx)^4 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2*c*d*x+b*d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(\frac{be}{2c} + ex\right) \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(1/2*b*e/c+e*x)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}}{ac + (bc + ad)x + bdx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)/(a*c+(a*d+b*c)*x+b*d*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 391

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e + fx}}{ac + (bc + ad)x + bdx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)/(a*c+(a*d+b*c)*x+b*d*x^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 392

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e+fx}(ac+(bc+ad)x+bdx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(f*x+e)^(1/2)/(a*c+(a*d+b*c)*x+b*d*x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^{3/2} (ac + (bc + ad)x + bdx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(f*x+e)^(3/2)/(a*c+(a*d+b*c)*x+b*d*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{7/2}}{(ac + (bc + ad)x + bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(7/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{5/2}}{(ac + (bc + ad)x + bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(5/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^{3/2}}{(ac + (bc + ad)x + bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(3/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e+fx}}{(ac+(bc+ad)x+bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^(1/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 398

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e+fx}(ac+(bc+ad)x+bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(f*x+e)^(1/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^{3/2} (ac + (bc + ad)x + bdx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(f*x+e)^(3/2)/(a*c+(a*d+b*c)*x+b*d*x^2)^2,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*f-d*e>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 471

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 475

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^5/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 477

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 479

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 481

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^5/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 490

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(a+bx+cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(c*x^2+b*x+a)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{2\left(\left(\frac{a}{b}\right)^{\frac{1}{n}} - x \cos\left(\frac{(-1+2k)\pi}{n}\right)\right)}{\left(\frac{a}{b}\right)^{2/n} + x^2 - 2\left(\frac{a}{b}\right)^{\frac{1}{n}} x \cos\left(\frac{(-1+2k)\pi}{n}\right)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(2*((a/b)^(1/n)-x*cos((-1+2*k)*pi/n))/((a/b)^(2/n)+x^2-2*(a/b)^(1/n)*x*cos((-1+2*k)*pi/n)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1>0)', see `assume?` for more details)Is 1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 510

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 573

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 574

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 575

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 576

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 577

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 578

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 579

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 580

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 581

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 582

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 583

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 584

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 585

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 586

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 587

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 588

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 589

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 590

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 591

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 592

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 593

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 594

Maxima [F(-2)]

Exception generated.

$$\int (d + ex) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 595

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 596

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 597

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 598

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 599

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 600

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 601

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 602

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 608

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 609

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 610

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 611

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 612

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 613

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 614

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 615

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 616

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 617

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 618

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 619

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 620

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 621

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 622

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 623

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^5/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 624

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 625

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 626

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 627

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 628

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 629

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 630

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 631

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)(d^2-e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(g*x+f)/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more de tails)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)^2 (d^2 - e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(g*x+f)^2/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(f+gx)^3 (d^2 - e^2x^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(g*x+f)^3/(-e^2*x^2+d^2)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1+dx)^2}{(e+fx)\sqrt{1-d^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+1)^2/(f*x+e)/(-d^2*x^2+1)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex}(1 - x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(-x^2+1),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b

Test file number 94

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}(a + cx^2)}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+a)/(e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` for more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+cx^2)}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+a)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+cx^2)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+a)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+a)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+a)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+a)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^2\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c`

Test file number 95

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^2(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+cx^2)^2}{d+ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(1/2)*(c*x^2+a)^2/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+cx^2)^2}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+a)^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+cx^2)^2}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+a)^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)^2}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+a)^2/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+a)^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + cx^2)^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+a)^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^2/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)^2 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+a)^2/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^2/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c`

Test file number 95

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^2/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c`

Test file number 95

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)^2(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^2/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^2/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^2}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int x^2(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int x(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{x} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x^3,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{x^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3\sqrt{ade+(cd^2+ae^2)x+cdex^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ade + (cd^2 + ae^2)x + cdx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cde x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^4,x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{\sqrt{ade+(cd^2+ae^2)x+cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{\sqrt{ade+(cd^2+ae^2)x+cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{\sqrt{ade+(cd^2+ae^2)x+cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{\sqrt{ade+(cd^2+ae^2)x+cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/x^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex) \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x^2(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{x^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{x^4 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/x^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)^3}{(ade+(cd^2+ae^2)x+c dex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{x(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^4(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3/x^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^5 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3/x^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d+ex)(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume ?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex)}{(ade+(cd^2+ae^2)x+c dex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex) (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) \sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) \sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^3,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^4,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^5,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^6,x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^7,x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^8,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number `97`

Integral number in file `149`

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^2,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^3,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^4,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2)/(e*x+d)^9,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^3,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^8,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{f+gx}{(d+ex)\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^5 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^5/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (cd^2 - bde - be^2x - ce^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(3/2),x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^5*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^4*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for more data
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-2*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)/(g*x+f),x, algor
ithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)/(g*x+f),x, algor
ithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((4*c*e^2>0)', see `assume?` for
more detai
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, al
gorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((4*c*e^2>0)', see `assume?` for
more detai
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` for more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, alg
orithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` fo r more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` for more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/x^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^4 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/x^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^{3/2} (a + bx + cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((B*x+A)/x^(3/2)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int x^4(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int (A + Bx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int x^4(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int (A + Bx) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx) (a + bx + cx^2)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x^8,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int x^4(A+Bx)(a+bx+cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int x^3(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int x^2(A + Bx)(a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int x(A + Bx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int (A + Bx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^9} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^9,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x^{10}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x^10,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1`

Test file number 98

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A+Bx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^4 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(A + Bx)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^2(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x^3 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/x^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(c*x^2+b*x+a)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/x/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2`

Test file number 99

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2`

Test file number 99

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2`

Test file number 99

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int x(d+ex)(a+bx+cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(e*x+d)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int x(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex}(bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(5/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(7/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{9/2} (bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(9/2)/(c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(9/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(5/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(7/2)/(c*x^2+b*x)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(9/2)/(c*x^2+b*x)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(7/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(3/2)/(c*x^2+b*x)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^8,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2\sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 \sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^4 \sqrt{bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^4/(c*x^2+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^3/(c*x^2+b*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^2/(c*x^2+b*x)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*e-c*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/100_1.2.1.3_f0`

Test file number 100

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{7/2}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{d + ex}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex}(a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{7/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{11/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{9/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{7/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(d+ex)^{3/2}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)\sqrt{d+ex}}{(a^2+2abx+b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*((b*x+a)^2)^(1/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{3/2}}{(d+ex)^9} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^11,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^12,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^{12}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^13,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^14,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{15}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^15,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{16}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^16,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx)(a^2+2abx+b^2x^2)^{5/2}}{(d+ex)^{17}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^17,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^4 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^5 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^5/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex) (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex) (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{7/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{5/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^{3/2}}{a^2+2abx+b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex}(a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 359

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 360

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 361

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 362

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 363

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 364

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 365

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{11/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(11/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{9/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(9/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{7/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{5/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 371

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^{3/2}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 372

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{d + ex}}{(a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{d + ex} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(1/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{3/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(3/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{5/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^(5/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^{7/2} (a^2 + 2abx + b^2x^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^(7/2)/(b^2*x^2+2*a*b*x+a^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a^2 + 2abx + b^2x^2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*((b*x+a)^2)^(1/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 398

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^4,x, algorithm="maxi  
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^8,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^9,x, algorithm="maxi  
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 404

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 405

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^11,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 406

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(3/2)/(e*x+d)^12,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 407

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 415

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^2,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 416

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 417

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 418

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 419

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 420

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^7,x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 421

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 422

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 423

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^10,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 424

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^11,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 425

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^12,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 426

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^13,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 427

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(b^2*x^2+2*a*b*x+a^2)^(5/2)/(e*x+d)^14,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 428

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 433

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2\sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^2/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 434

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^3/((b*x+a)^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 435

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^4 \sqrt{a^2 + 2abx + b^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^4/((b*x+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 436

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 442

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 443

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*a*b)/e>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^2 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^2/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)^3 (a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(e*x+d)^3/(b^2*x^2+2*a*b*x+a^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 545

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 546

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 547

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 548

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 550

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 551

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 552

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 553

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 554

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 555

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 556

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 558

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 559

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^5/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 560

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 561

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 562

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 563

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 564

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^4 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 601

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 602

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 603

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex) \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 604

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 606

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 607

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 608

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 609

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 610

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 611

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 612

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 613

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 614

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx) (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 616

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output

Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 617

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output

Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 618

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 619

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^3 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 620

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex)^2 (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 621

Maxima [F(-2)]

Exception generated.

$$\int (b + 2cx)(d + ex) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 622

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx) (a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 624

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output

Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 625

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output

Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 626

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 627

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 628

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 629

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 630

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 632

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 633

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 634

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 635

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 636

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 637

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 638

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 639

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 641

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 642

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^4/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 643

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^3}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)^3/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 644

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((2*c*x+b)*(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 645

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(d + ex)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)*(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 646

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 648

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((2*c*x+b)/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 649

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3 (f + gx)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(f + gx)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 751

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 752

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 753

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 754

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 755

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4 (f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 756

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 757

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 758

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 759

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 760

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 761

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^4(f + gx)}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3(f + gx)}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 769

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 770

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 870

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) \sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 871

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 872

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 873

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 874

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 875

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 876

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 877

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 878

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 879

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 880

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 881

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 882

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)(a + bx + cx^2)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 883

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 884

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 885

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 886

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 887

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 888

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 (f + gx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 889

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 890

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 891

Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (a + bx + cx^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 892

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 893

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 894

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 895

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 896

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 897

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 898

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 (f + gx) (a + bx + cx^2)^{7/2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)*(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 899

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)(a + bx + cx^2)^{7/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)*(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 900

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)(a + bx + cx^2)^{7/2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 901

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more de tails)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 902

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 903

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 904

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 905

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 906

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 907

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^7} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 908

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 909

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^9} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 910

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 911

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^11,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 912

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d)^12,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 913

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 973

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 974

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 975

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 976

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 977

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 978

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 979

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 980

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 981

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)}{(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 982

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 983

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 984

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 985

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 986

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(f+gx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^4*(g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 987

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 989

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 990

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 991

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 992

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 993

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^6}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(e*x+d)^6/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 994

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^5}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^5/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 995

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A+Bx)(d+ex)^4}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^4/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 996

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^3}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^3/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^2}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)^2/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 998

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 999

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 1000

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 1001

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 378

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 380

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)^2}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)(a + bx + cx^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^8,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 739

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)(a + bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^6,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 740

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 741

Maxima [F(-2)]

Exception generated.

$$\int \frac{bd - 2ae + (2cd - be)x}{(d + ex)^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*d-2*a*e+(-b*e+2*c*d)*x)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorith="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 742

Maxima [F(-2)]

Exception generated.

$$\int \frac{bd - 2ae + (2cd - be)x}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 743

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2 (bd - 2ae + (2cd - be)x)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 744

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(bd-2ae+(2cd-be)x)}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^4*(b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(7/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 745

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 (f+gx)^2 \sqrt{\frac{77e^2 f^2}{2} - 21defg + \frac{9d^2 g^2}{2} - 8eg \left(-7ef + \frac{3dg}{2}\right) x + 22e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(e*x+d)^3*(g*x+f)^2*(88*e^2*g^2*x^2-48*d*e*g^2*x+224*e^2*f*g*x+18*d^2*g^2-84*d*e*f*g+154*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(3*d*g-14*e*f)>0)', see `assume?` for mo
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 771

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^2 (f+gx)^2 \sqrt{27e^2 f^2 - 18defg + \frac{9d^2 g^2}{2} - 6eg \left(-6ef + \frac{3dg}{2}\right) x + \frac{27}{2} e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input

```
integrate(3/2*(e*x+d)^2*(g*x+f)^2*(6*e^2*g^2*x^2-4*d*e*g^2*x+16*e^2*f*g*x+2*d^2*g^2-8*d*e*f*g+12*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-4*e*f)>0)', see `assume?` for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 772

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)^2 \sqrt{\frac{35e^2 f^2}{2} - 15defg + \frac{9d^2 g^2}{2} - 4eg \left(-5ef + \frac{3dg}{2} \right) x + 7e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input `integrate(1/2*(e*x+d)*(g*x+f)^2*(28*e^2*g^2*x^2-24*d*e*g^2*x+80*e^2*f*g*x+18*d^2*g^2-60*d*e*f*g+70*e^2*f^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(3*d*g-10*e*f)>0)', see `assume?` for mo`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 773

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{10e^2 f^2 - 12defg + \frac{9d^2 g^2}{2} - 2eg \left(-4ef + \frac{3dg}{2} \right) x + \frac{5}{2} e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input `integrate(1/2*(g*x+f)^2*(10*e^2*g^2*x^2-12*d*e*g^2*x+32*e^2*f*g*x+18*d^2*g^2-48*d*e*f*g+40*e^2*f^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(3*d*g-8*e*f)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 774

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{e^2 f^2 - 6defg + \frac{9d^2 g^2}{2} + 2eg \left(-2ef + \frac{3dg}{2}\right) x - \frac{1}{2} e^2 g^2 x^2}}{(d + ex)^2} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(g*x+f)^2*(-2*e^2*g^2*x^2+12*d*e*g^2*x-16*e^2*f*g*x+18*d^2*g
^2-24*d*e*f*g+4*e^2*f^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^2 \sqrt{-\frac{1}{2}e^2 f^2 - 3defg + \frac{9d^2 g^2}{2} + 4eg \left(-ef + \frac{3dg}{2}\right) x + e^2 g^2 x^2}}{(d+ex)^3} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(g*x+f)^2*(4*e^2*g^2*x^2+24*d*e*g^2*x-16*e^2*f*g*x+18*d^2*g^2-12*d*e*f*g-2*e^2*f^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 (f+gx)^2 \left(\frac{117e^2 f^2}{2} - 45defg + \frac{25d^2 g^2}{2} - 8eg \left(-9ef + \frac{5dg}{2} \right) x + 26e^2 g^2 x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)^2*(117/2*e^2*f^2-45*d*e*f*g+25/2*d^2*g^2-8*e*g*(-9*e*f+5/2*d*g)*x+26*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^2(f+gx)^2 \left(44e^2f^2 - 40defg + \frac{25d^2g^2}{2} - 6eg \left(-8ef + \frac{5dg}{2} \right) x + \frac{33}{2}e^2g^2x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2*(44*e^2*f^2-40*d*e*f*g+25/2*d^2*g^2-6*e*g*(-
8*e*f+5/2*d*g)*x+33/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)^2 \left(\frac{63e^2 f^2}{2} - 35defg + \frac{25d^2 g^2}{2} - 4eg \left(-7ef + \frac{5dg}{2} \right) x + 9e^2 g^2 x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)^2*(63/2*e^2*f^2-35*d*e*f*g+25/2*d^2*g^2-4*e*g*(-7*e*f+5/2*d*g)*x+9*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \left(21e^2 f^2 - 30defg + \frac{25d^2 g^2}{2} - 2eg \left(-6ef + \frac{5dg}{2} \right) x + \frac{7}{2}e^2 g^2 x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2*(21*e^2*f^2-30*d*e*f*g+25/2*d^2*g^2-2*e*g*(-6*e*f+5/2*d*g)*x+7/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \left(6e^2 f^2 - 20defg + \frac{25d^2 g^2}{2} + 2eg \left(-4ef + \frac{5dg}{2} \right) x - \frac{3}{2} e^2 g^2 x^2 \right)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: Value}$$

input

```
integrate((g*x+f)^2*(6*e^2*f^2-20*d*e*f*g+25/2*d^2*g^2+2*e*g*(-4*e*f+5/2*d
*g)*x-3/2*e^2*g^2*x^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \left(\frac{3e^2 f^2}{2} - 15defg + \frac{25d^2 g^2}{2} + 4eg \left(-3ef + \frac{5dg}{2} \right) x - e^2 g^2 x^2 \right)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(3/2*e^2*f^2-15*d*e*f*g+25/2*d^2*g^2+4*e*g*(-3*e*f+5/2*d*g)*x-e^2*g^2*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3 (f + gx)^2}{\sqrt{\frac{45e^2 f^2}{2} - 5defg + \frac{d^2 g^2}{2} - 8eg \left(-5ef + \frac{dg}{2} \right) x + 18e^2 g^2 x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(e*x+d)^3*(g*x+f)^2/(72*e^2*g^2*x^2-16*d*e*g^2*x+160*e^2*f*g*x+2*d^2*g^2-20*d*e*f*g+90*e^2*f^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((160*e^2*f*g>0)', see `assume?` for more d`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 783

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{\sqrt{14e^2f^2 - 4defg + \frac{d^2g^2}{2} - 6eg(-4ef + \frac{dg}{2})x + \frac{21}{2}e^2g^2x^2}} dx$$

= Exception raised: ValueError

input

```
integrate(2*(e*x+d)^2*(g*x+f)^2/(42*e^2*g^2*x^2-12*d*e*g^2*x+96*e^2*f*g*x+2*d^2*g^2-16*d*e*f*g+56*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((96*e^2*f*g>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 784

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{\sqrt{\frac{15e^2f^2}{2} - 3defg + \frac{d^2g^2}{2} - 4eg(-3ef + \frac{dg}{2})x + 5e^2g^2x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(e*x+d)*(g*x+f)^2/(20*e^2*g^2*x^2-8*d*e*g^2*x+48*e^2*f*g*x+2*d^2*g^2-12*d*e*f*g+30*e^2*f^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((48*e^2*f*g>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 785

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{\sqrt{3e^2 f^2 - 2defg + \frac{d^2 g^2}{2} - 2eg \left(-2ef + \frac{dg}{2}\right) x + \frac{3}{2}e^2 g^2 x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(g*x+f)^2/(6*e^2*g^2*x^2-4*d*e*g^2*x+16*e^2*f*g*x+2*d^2*g^2-8*d*e*f*g+12*e^2*f^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((16*e^2*f*g>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 786

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 \sqrt{\frac{3e^2 f^2}{2} + defg + \frac{d^2 g^2}{2} + 4eg \left(ef + \frac{dg}{2} \right) x + 3e^2 g^2 x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(g*x+f)^2/(e*x+d)^3/(12*e^2*g^2*x^2+8*d*e*g^2*x+16*e^2*f*g*x+2*d^2*g^2+4*d*e*f*g+6*e^2*f^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 788

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3 (f + gx)^2}{\left(\frac{21e^2 f^2}{2} + 3defg + \frac{d^2 g^2}{2} - 8eg \left(-3ef - \frac{dg}{2} \right) x + 14e^2 g^2 x^2 \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)^2/(21/2*e^2*f^2+3*d*e*f*g+1/2*d^2*g^2-8*e*g*(-3*e*f-1/2*d*g)*x+14*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(16*e^2*g^2>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 789

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{\left(5e^2f^2 + 2defg + \frac{d^2g^2}{2} - 6eg\left(-2ef - \frac{dg}{2}\right)x + \frac{15}{2}e^2g^2x^2\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(5*e^2*f^2+2*d*e*f*g+1/2*d^2*g^2-6*e*g*(-2*e*f-1/2*d*g)*x+15/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(9*e^2*g^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 790

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{\left(\frac{3e^2f^2}{2} + defg + \frac{d^2g^2}{2} - 4eg\left(-ef - \frac{dg}{2}\right)x + 3e^2g^2x^2\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)^2/(3/2*e^2*f^2+d*e*f*g+1/2*d^2*g^2-4*e*g*(-e*f-1/2*d*g)*x+3*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*e^2*g^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 \left(3e^2 f^2 - 2defg + \frac{d^2 g^2}{2} + 2eg \left(2ef - \frac{dg}{2} \right) x + \frac{3}{2} e^2 g^2 x^2 \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2/(e*x+d)^2/(3*e^2*f^2-2*d*e*f*g+1/2*d^2*g^2+2*e*g*(2*e*
f-1/2*d*g)*x+3/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((4*e*f*g-4*d*g^2)^2>0)', see `as
sume?` for
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2`

Test file number 102

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 \left(\frac{15e^2 f^2}{2} - 3defg + \frac{d^2 g^2}{2} + 4eg \left(3ef - \frac{dg}{2} \right) x + 5e^2 g^2 x^2 \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^3/(15/2*e^2*f^2-3*d*e*f*g+1/2*d^2*g^2+4*e*g*(3*e*f-1/2*d*g)*x+5*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}(a + bx + cx^2)}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}(a + bx + cx^2)}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)/(e*x+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}(a + bx + cx^2)}{(d + ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)/(e*x+d)^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^2\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^2 (f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)/(g*x+f)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^2(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^2/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^3/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{5/2}(A+Bx+Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}(c+dx)^{3/2}(A+Bx+Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a+bx}\sqrt{c+dx}(A+Bx+Cx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{\sqrt{c+dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(A+Bx+Cx^2)}{(c+dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} (c + dx)^{5/2} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} (c + dx)^{3/2} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{3/2} \sqrt{c + dx} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2} (A + Bx + Cx^2)}{(c + dx)^{15/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c)^(15/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (c + dx)^{5/2} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)*(C*x^2+B*x+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} (c + dx)^{3/2} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^{5/2} \sqrt{c + dx} (A + Bx + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)*(C*x^2+B*x+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{\sqrt{c + dx}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2} (A + Bx + Cx^2)}{(c + dx)^{17/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a)^(5/2)*(C*x^2+B*x+A)/(d*x+c)^(17/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(a+bx+cx^2)}{\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-`
`nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(a+bx+cx^2)}{\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+bx+cx^2}{\sqrt{d+ex}\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{3/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(3/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{5/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(5/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{7/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(7/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{9/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(9/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2} (a + bx + cx^2)}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)*(c*x^2+b*x+a)/(g*x+f)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(a+bx+cx^2)}{(f+gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(a+bx+cx^2)}{(f+gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{d + ex}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(1/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{3/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(3/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{5/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(5/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{7/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(7/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2}(a+bx+cx^2)}{(f+gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)*(c*x^2+b*x+a)/(g*x+f)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(a+bx+cx^2)}{(f+gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(a+bx+cx^2)}{(f+gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{\sqrt{d + ex}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(1/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{3/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(3/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{5/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(5/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^{7/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^(7/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(4/3),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^2(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^2/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^3(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^3/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^4(c + dx)^{4/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^4/(d*x+c)^(4/3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx}(a + bx + cx^2)^2}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^2\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^2/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^3 \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^3/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^2(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^2/(e*x+d)^2/(g*x+f)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^3(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^3/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^2(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^2/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^3(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^3/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} \sqrt{f + gx} (a + bx + cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(1/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex} \sqrt{f + gx} (a + bx + cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(1/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(1/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(9/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(11/2),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}(a+bx+cx^2)^2}{(d+ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(c*x^2+b*x+a)^2/(e*x+d)^(13/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^{3/2}(f+gx)^{3/2}(a+bx+cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(3/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(f+gx)^{3/2}(a+bx+cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(3/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^{3/2}(a+bx+cx^2)^2}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(3/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(11/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(13/2),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + bx + cx^2)^2}{(d + ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(c*x^2+b*x+a)^2/(e*x+d)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (f + gx)^{5/2} (a + bx + cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(5/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(f+gx)^{5/2}(a+bx+cx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(5/2)*(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^{5/2}(a+bx+cx^2)^2}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(3/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(11/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{13/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(13/2),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{15/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(15/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + bx + cx^2)^2}{(d + ex)^{17/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(c*x^2+b*x+a)^2/(e*x+d)^(17/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(a+bx+cx^2)^2}{\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)^2/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(a+bx+cx^2)^2}{\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)^2/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^2/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{3/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(3/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{5/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(5/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{7/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(7/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{9/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(9/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2} (a + bx + cx^2)^2}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)^2/(g*x+f)^(3/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(a+bx+cx^2)^2}{(f+gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)^2/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+bx+cx^2)^2}{\sqrt{d+ex}(f+gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(1/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{3/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(3/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{5/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(5/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{7/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^2/(e*x+d)^(7/2)/(g*x+f)^(3/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{9/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(9/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2} (a + bx + cx^2)^2}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(5/2)*(c*x^2+b*x+a)^2/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2} (a + bx + cx^2)^2}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*(c*x^2+b*x+a)^2/(g*x+f)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex} (a + bx + cx^2)^2}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(1/2)*(c*x^2+b*x+a)^2/(g*x+f)^(5/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{\sqrt{d + ex}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^2/(e*x+d)^(1/2)/(g*x+f)^(5/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{3/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(3/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{5/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(5/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^2}{(d + ex)^{7/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^2/(e*x+d)^(7/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)^2(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)^4 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(f + gx)^3}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{a+bx+cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)^4 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^4/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)^3(ax^2+bx+c)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)^3(ax+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)^3(ax^2+bx+c)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(g*x+f)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{(d+ex)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{(d+ex)^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{(d+ex)^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{(d+ex)^4(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)/(e*x+d)^4/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx}}{(d+ex)^5(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)/(e*x+d)^5/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^{3/2}}{(d+ex)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2}}{(d + ex)^2 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^(3/2)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2}}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)\sqrt{f + gx} (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{f+gx} (a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{f+gx} (a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)^{3/2}(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)^{3/2}(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)^{3/2}(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^3/(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)^{5/2}(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 339

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)^{5/2}(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)^(5/2)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)^3}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 378

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(f + gx)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)/(g*x+f)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 380

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(f + gx)}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 390

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 391

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(f+gx)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 392

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^3}{(d+ex)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^2/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2(f+gx)^2(ax+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 398

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^3 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)^2(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 404

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more de tails)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) \sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` for more de or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^4/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 500

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^4/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 508

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 509

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 510

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 511

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 512

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 579

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 580

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 581

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 582

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 583

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d+ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, alg
orithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 751

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) \sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 752

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(a*e^2-c*d^2)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 753

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 754

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^3*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 758

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 759

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 760

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{d + ex} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 761

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(f + gx)^2}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(b*e-2*c*d)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)\sqrt{cd^2-bde-be^2x-ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((4*c*e^2>0)', see `assume?` for
more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 769

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*c*e^2>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 770

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 771

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 772

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 773

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+c dex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 774

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` for more det
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((d*g-e*f)>0)', see `assume?` fo
r more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-c*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 783

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, alg
orithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` fo
r more det
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 784

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 (ade + (cd^2 + ae^2)x + cdex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((a*e^2)/g>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 785

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)(a + bx + cx^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(5/2)/(e*x+d)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 822

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)(a + bx + cx^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^6,x, algorith="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 823

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bd - 2ae + (2cd - be)x)\sqrt{a + bx + cx^2}}{(d + ex)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*d-2*a*e+(-b*e+2*c*d)*x)*(c*x^2+b*x+a)^(1/2)/(e*x+d)^4,x, algorith="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 824

Maxima [F(-2)]

Exception generated.

$$\int \frac{bd - 2ae + (2cd - be)x}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b*d-2*a*e+(-b*e+2*c*d)*x)/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 825

Maxima [F(-2)]

Exception generated.

$$\int \frac{bd - 2ae + (2cd - be)x}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 826

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2(bd - 2ae + (2cd - be)x)}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 827

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4 (bd-2ae+(2cd-be)x)}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^4*(b*d-2*a*e+(-b*e+2*c*d)*x)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 828

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3 (f+gx)^2 \sqrt{\frac{77e^2 f^2}{2} - 21defg + \frac{9d^2 g^2}{2} - 8eg \left(-7ef + \frac{3dg}{2}\right) x + 22e^2 g^2 x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/2*(e*x+d)^3*(g*x+f)^2*(88*e^2*g^2*x^2-48*d*e*g^2*x+224*e^2*f*g*x+18*d^2*g^2-84*d*e*f*g+154*e^2*f^2)^(1/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(3*d*g-14*e*f)>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 854

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^2(f+gx)^2 \sqrt{27e^2f^2 - 18defg + \frac{9d^2g^2}{2} - 6eg \left(-6ef + \frac{3dg}{2}\right) x + \frac{27}{2}e^2g^2x^2} dx$$

= Exception raised: ValueError

input

```
integrate(3/2*(e*x+d)^2*(g*x+f)^2*(6*e^2*g^2*x^2-4*d*e*g^2*x+16*e^2*f*g*x+
2*d^2*g^2-8*d*e*f*g+12*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-4*e*f)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 855

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)(f + gx)^2 \sqrt{\frac{35e^2 f^2}{2} - 15defg + \frac{9d^2 g^2}{2} - 4eg \left(-5ef + \frac{3dg}{2} \right) x + 7e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(e*x+d)*(g*x+f)^2*(28*e^2*g^2*x^2-24*d*e*g^2*x+80*e^2*f*g*x+
18*d^2*g^2-60*d*e*f*g+70*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(3*d*g-10*e*f)>0)', see `assum
e?` for mo
```

input file name [test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f](#)

Test file number 103

Integral number in file 856

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{10e^2 f^2 - 12defg + \frac{9d^2 g^2}{2} - 2eg \left(-4ef + \frac{3dg}{2} \right) x + \frac{5}{2} e^2 g^2 x^2} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(g*x+f)^2*(10*e^2*g^2*x^2-12*d*e*g^2*x+32*e^2*f*g*x+18*d^2*g
^2-48*d*e*f*g+40*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(3*d*g-8*e*f)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 857

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{e^2 f^2 - 6defg + \frac{9d^2 g^2}{2} + 2eg(-2ef + \frac{3dg}{2})x - \frac{1}{2}e^2 g^2 x^2}}{(d + ex)^2} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(g*x+f)^2*(-2*e^2*g^2*x^2+12*d*e*g^2*x-16*e^2*f*g*x+18*d^2*g^2-24*d*e*f*g+4*e^2*f^2)^(1/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 858

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{-\frac{1}{2}e^2 f^2 - 3defg + \frac{9d^2 g^2}{2} + 4eg(-ef + \frac{3dg}{2})x + e^2 g^2 x^2}}{(d + ex)^3} dx$$

= Exception raised: ValueError

input

```
integrate(1/2*(g*x+f)^2*(4*e^2*g^2*x^2+24*d*e*g^2*x-16*e^2*f*g*x+18*d^2*g^2-12*d*e*f*g-2*e^2*f^2)^(1/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 859

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^3(f+gx)^2 \left(\frac{117e^2f^2}{2} - 45defg + \frac{25d^2g^2}{2} - 8eg \left(-9ef + \frac{5dg}{2} \right) x + 26e^2g^2x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^3*(g*x+f)^2*(117/2*e^2*f^2-45*d*e*f*g+25/2*d^2*g^2-8*e*g*(-9*e*f+5/2*d*g)*x+26*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 860

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)^2(f+gx)^2 \left(44e^2f^2 - 40defg + \frac{25d^2g^2}{2} - 6eg \left(-8ef + \frac{5dg}{2} \right) x + \frac{33}{2}e^2g^2x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2*(44*e^2*f^2-40*d*e*f*g+25/2*d^2*g^2-6*e*g*(-8*e*f+5/2*d*g)*x+33/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 861

Maxima [F(-2)]

Exception generated.

$$\int (d+ex)(f+gx)^2 \left(\frac{63e^2f^2}{2} - 35defg + \frac{25d^2g^2}{2} - 4eg \left(-7ef + \frac{5dg}{2} \right) x + 9e^2g^2x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)^2*(63/2*e^2*f^2-35*d*e*f*g+25/2*d^2*g^2-4*e*g*(-7*e*f+5/2*d*g)*x+9*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 862

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \left(21e^2 f^2 - 30defg + \frac{25d^2 g^2}{2} - 2eg \left(-6ef + \frac{5dg}{2} \right) x + \frac{7}{2} e^2 g^2 x^2 \right)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2*(21*e^2*f^2-30*d*e*f*g+25/2*d^2*g^2-2*e*g*(-6*e*f+5/2*  
d*g)*x+7/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 863

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \left(6e^2 f^2 - 20defg + \frac{25d^2 g^2}{2} + 2eg(-4ef + \frac{5dg}{2})x - \frac{3}{2}e^2 g^2 x^2 \right)^{3/2}}{(d + ex)^2} dx = \text{Exception raised: Value}$$

input

```
integrate((g*x+f)^2*(6*e^2*f^2-20*d*e*f*g+25/2*d^2*g^2+2*e*g*(-4*e*f+5/2*d
*g)*x-3/2*e^2*g^2*x^2)^(3/2)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 864

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \left(\frac{3e^2 f^2}{2} - 15defg + \frac{25d^2 g^2}{2} + 4eg(-3ef + \frac{5dg}{2})x - e^2 g^2 x^2 \right)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: ValueE}$$

input

```
integrate((g*x+f)^2*(3/2*e^2*f^2-15*d*e*f*g+25/2*d^2*g^2+4*e*g*(-3*e*f+5/2
*d*g)*x-e^2*g^2*x^2)^(3/2)/(e*x+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 865

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)^2}{\sqrt{\frac{45e^2f^2}{2} - 5defg + \frac{d^2g^2}{2} - 8eg(-5ef + \frac{dg}{2})x + 18e^2g^2x^2}} dx$$

= Exception raised: ValueError

input

```
integrate(2*(e*x+d)^3*(g*x+f)^2/(72*e^2*g^2*x^2-16*d*e*g^2*x+160*e^2*f*g*x
+2*d^2*g^2-20*d*e*f*g+90*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((160*e^2*f*g>0)', see `assume?`
for more d
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 866

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{\sqrt{14e^2f^2 - 4defg + \frac{d^2g^2}{2} - 6eg(-4ef + \frac{dg}{2})x + \frac{21}{2}e^2g^2x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(e*x+d)^2*(g*x+f)^2/(42*e^2*g^2*x^2-12*d*e*g^2*x+96*e^2*f*g*x+2*d^2*g^2-16*d*e*f*g+56*e^2*f^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((96*e^2*f*g>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 867

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{\sqrt{\frac{15e^2f^2}{2} - 3defg + \frac{d^2g^2}{2} - 4eg\left(-3ef + \frac{dg}{2}\right)x + 5e^2g^2x^2}} dx$$

= Exception raised: ValueError

input `integrate(2*(e*x+d)*(g*x+f)^2/(20*e^2*g^2*x^2-8*d*e*g^2*x+48*e^2*f*g*x+2*d^2*g^2-12*d*e*f*g+30*e^2*f^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((48*e^2*f*g>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 868

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{\sqrt{3e^2 f^2 - 2defg + \frac{d^2 g^2}{2} - 2eg \left(-2ef + \frac{dg}{2}\right) x + \frac{3}{2} e^2 g^2 x^2}} dx$$

= Exception raised: ValueError

input

```
integrate(2*(g*x+f)^2/(6*e^2*g^2*x^2-4*d*e*g^2*x+16*e^2*f*g*x+2*d^2*g^2-8*d*e*f*g+12*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((16*e^2*f*g>0)', see `assume?` f
or more de
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 869

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 \sqrt{\frac{3e^2 f^2}{2} + defg + \frac{d^2 g^2}{2} + 4eg \left(ef + \frac{dg}{2}\right) x + 3e^2 g^2 x^2}} dx$$

= Exception raised: ValueError

input

```
integrate(2*(g*x+f)^2/(e*x+d)^3/(12*e^2*g^2*x^2+8*d*e*g^2*x+16*e^2*f*g*x+2*d^2*g^2+4*d*e*f*g+6*e^2*f^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 871

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3(f+gx)^2}{\left(\frac{21e^2f^2}{2} + 3defg + \frac{d^2g^2}{2} - 8eg\left(-3ef - \frac{dg}{2}\right)x + 14e^2g^2x^2\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(g*x+f)^2/(21/2*e^2*f^2+3*d*e*f*g+1/2*d^2*g^2-8*e*g*(-3*e*f-1/2*d*g)*x+14*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(16*e^2*g^2>0)', see `assume?` for more det`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 872

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{\left(5e^2f^2 + 2defg + \frac{d^2g^2}{2} - 6eg\left(-2ef - \frac{dg}{2}\right)x + \frac{15}{2}e^2g^2x^2\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(5*e^2*f^2+2*d*e*f*g+1/2*d^2*g^2-6*e*g*(-2*e*f-1/2*d*g)*x+15/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(9*e^2*g^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 873

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx)^2}{\left(\frac{3e^2f^2}{2} + defg + \frac{d^2g^2}{2} - 4eg\left(-ef - \frac{dg}{2}\right)x + 3e^2g^2x^2\right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(g*x+f)^2/(3/2*e^2*f^2+d*e*f*g+1/2*d^2*g^2-4*e*g*(-e*f-1/2*d*g)*x+3*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*e^2*g^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 874

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 \left(3e^2 f^2 - 2defg + \frac{d^2 g^2}{2} + 2eg \left(2ef - \frac{dg}{2} \right) x + \frac{3}{2} e^2 g^2 x^2 \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2/(e*x+d)^2/(3*e^2*f^2-2*d*e*f*g+1/2*d^2*g^2+2*e*g*(2*e*f-1/2*d*g)*x+3/2*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((4*e*f*g-4*d*g^2)^2>0)', see `assume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 876

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^3 \left(\frac{15e^2 f^2}{2} - 3defg + \frac{d^2 g^2}{2} + 4eg \left(3ef - \frac{dg}{2} \right) x + 5e^2 g^2 x^2 \right)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)^2/(e*x+d)^3/(15/2*e^2*f^2-3*d*e*f*g+1/2*d^2*g^2+4*e*g*(3*e*f-1/2*d*g)*x+5*e^2*g^2*x^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 877

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(1-x^2)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-x^2+1)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/104_1.2.1.4_a

Test file number 104

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(1-x)(1+x)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(1-x)/(1+x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/104_1.2.1.4_a`

Test file number 104

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + \frac{bfx^2}{e}}{\sqrt{d + ex + fx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*x+b*f*x^2/e)/(f*x^2+e*x+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b`

Test file number 105

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d+ex+fx^2} \left(a+bx+\frac{bfx^2}{e}\right)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(f*x^2+e*x+d)^(1/2)/(a+b*x+b*f*x^2/e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(4*a*f-b*e)>0)', see `assume?` for more`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2} (d+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(1/2)/(c*x^2+b*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*d-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(2-3x)(5+x)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(2-3*x)/(5+x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(10-13x-3x^2)(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-3*x^2-13*x+10)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} (d + ex + fx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^3}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b`

Test file number 105

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + cx^2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5`

Test file number 106

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{1 - x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(-x^2+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a + bx + cx^2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?``

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)(d + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^2 (d + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^2/(f*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', se
e `assume?
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2}(d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^{5/2} (d - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(5/2)/(-f*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((c*sqrt(4*d*f))/(2*f^2)>0)', see `assume?`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^2}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^2/(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)(d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)^2 (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^2/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx + cx^2)(ad + bdx + cdx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)/(c*x^2+b*x+a)/(c*d*x^2+b*d*x+a*d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{g + hx}{(a + bx + cx^2)^2 (ad + bdx + cdx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)/(c*x^2+b*x+a)^2/(c*d*x^2+b*d*x+a*d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + ex + fx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + fx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)\sqrt{a + bx + cx^2}}{(ad + bdx + cd^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)*(c*x^2+b*x+a)^(1/2)/(c*d*x^2+b*d*x+a*d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x^6 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex + fx^2)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex + fx^2)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)^2/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x^6 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)^2/x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3 + hx^4 + ix^5}{(a + bx + cx^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((i*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3 + hx^4 + jx^5 + kx^6 + lx^7 + mx^8}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((m*x^8+l*x^7+k*x^6+j*x^5+h*x^4+g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a), x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{5/2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(5/2)*(C*x^2+A),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(C*x^2+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2} (A + Cx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(C*x^2+A),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+A)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx + cx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((C*x^2+A)/(c*x^2+b*x+a)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{d^2f + d(2ef + dg)x + e(ef + 2dg)x^2 + e^2gx^3}{(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((d^2*f+d*(d*g+2*e*f)*x+e*(2*d*g+e*f)*x^2+e^2*g*x^3)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4(f+gx)}{(a+bx+cx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^4*(g*x+f)/(c*x^2+b*x+a)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{d^4 f + d^3(4ef + dg)x + 2d^2e(3ef + 2dg)x^2 + 2de^2(2ef + 3dg)x^3 + e^3(ef + 4dg)x^4 + e^4gx^5}{(a+bx+cx^2)^{7/2}} dx = \text{Exception}$$

input

```
integrate((d^4*f+d^3*(d*g+4*e*f)*x+2*d^2*e*(2*d*g+3*e*f)*x^2+2*d*e^2*(3*d*
g+2*e*f)*x^3+e^3*(4*d*g+e*f)*x^4+e^4*g*x^5)/(c*x^2+b*x+a)^(7/2),x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/107_1.2.1.6

Test file number 107

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)(-cg^2 + bgh + bh^2x + ch^2x^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)/(h*x+g)/(c*h^2*x^2+b*h^2*x+b*g*h-c*g^2)^(3/2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*h-2*c*g>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3 (f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2 (f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(f + gx + hx^2)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(e*x+d)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^2(a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(e*x+d)^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^3 (a + bx + cx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x^2+g*x+f)/(e*x+d)^3/(c*x^2+b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx+hx^2)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*(h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)(f+gx+hx^2)}{(a+bx+cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*(h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)(a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(e*x+d)/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2}{(d + ex)^2 (a + bx + cx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)/(e*x+d)^2/(c*x^2+b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^3 \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^3*(c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 \sqrt{a + bx + cx^2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)^2*(c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)\sqrt{a + bx + cx^2}(d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)*(c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + bx + cx^2}(d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{g + hx} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b*h-2*c*g>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g)^5,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{(g + hx)^6} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g)^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^3 (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^3*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)^2*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int (g + hx) (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)*(c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int (a + bx + cx^2)^{3/2} (d + ex + fx^2) dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{g + hx} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*h-2*c*g>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^2,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*h-2*c*g>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^6,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^7,x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{(g + hx)^8} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g)^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^3*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^2*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx) (d + ex + fx^2)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see `assume?` for

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see `assume?` for

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b`

Test file number 109

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)/(h*x+g)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^3 (d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)^3*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^2 (d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)^2*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g + hx)(d + ex + fx^2)}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)*(f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/h-(2*c*g)/h^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^3 (a + bx + cx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^2+e*x+d)/(h*x+g)^3/(c*x^2+b*x+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*h^2-b*g*h>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex + fx^2 + gx^3)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex + fx^2 + gx^3)}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^2\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x^2/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^3\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^4 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x^3+f*x^2+e*x+d)/x^4/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima
")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^5 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x^5/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x^6 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x^6/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{f + gx + hx^2 + ix^3 + jx^4}{(a + bx + cx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((j*x^4+i*x^3+h*x^2+g*x+f)/(c*x^2+b*x+a)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)(A + Bx + Cx^2)}{x^3 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)*(C*x^2+B*x+A)/x^3/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c`

Test file number 112

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c`

Test file number 112

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2} (A + Bx + Cx^2)}{(f + gx)(2 + 5x + 3x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(5/2)*(C*x^2+B*x+A)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}(A+Bx+Cx^2)}{(f+gx)(2+5x+3x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*(C*x^2+B*x+A)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(A+Bx+Cx^2)}{(f+gx)(2+5x+3x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(1/2)*(C*x^2+B*x+A)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{d + ex}(f + gx)(2 + 5x + 3x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((C*x^2+B*x+A)/(e*x+d)^(1/2)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)^{3/2}(f + gx)(2 + 5x + 3x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)^(3/2)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)^{5/2}(f + gx)(2 + 5x + 3x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)^(5/2)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)^{7/2}(f + gx)(2 + 5x + 3x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)^(7/2)/(g*x+f)/(3*x^2+5*x+2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d-4*e>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (A + Bx + Cx^2)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(A + Bx + Cx^2)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((g*x+f)*(C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="
maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `as
sume?` for
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b/e-(2*c*d)/e^2)^2>0)', see `assume?` for`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{-1 + a^2 + 2ax^2 + x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(x^4+2*a*x^2+a^2-1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1.0>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/114_1.2.2.1

Test file number 114

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 769

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{a + fx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + fx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + fx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + fx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + fx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(c*x^4+f*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + fx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + fx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(c*x^4+f*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(f^2-4*a*c>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 790

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 795

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 802

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 803

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 804

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 805

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 806

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 807

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 808

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a+bx^2+cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 809

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4-b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 817

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4-b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 818

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a - bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4-b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 819

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a - bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4-b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 820

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(a-bx^2+cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^3/(c*x^4-b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 821

Maxima [F(-2)]

Exception generated.

$$\int x^7 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 948

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 949

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 950

Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 951

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 952

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 953

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+b*x^2+a)^(1/2)/x^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 954

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 955

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^9} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 956

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x^11,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 957

Maxima [F(-2)]

Exception generated.

$$\int x^7 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 964

Maxima [F(-2)]

Exception generated.

$$\int x^5 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 965

Maxima [F(-2)]

Exception generated.

$$\int x^3 (a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 966

Maxima [F(-2)]

Exception generated.

$$\int x(a + bx^2 + cx^4)^{3/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 967

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 968

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 969

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 970

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 971

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^9} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^9,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 972

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^{11}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^11,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 973

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^{13}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+b*x^2+a)^(3/2)/x^13,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 974

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 982

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 983

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2`

Test file number 115

Integral number in file 984

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 985

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 986

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 987

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 989

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1008

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1009

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1010

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1011

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1012

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^2+cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1013

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1014

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (a + bx^2 + cx^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(c*x^4+b*x^2+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 1015

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d^2 - e^2 x^4}}{d - e x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((-e^2*x^4+d^2)^(1/2)/(-e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a`

Test file number 116

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + e x^2) \sqrt{d^2 - e^2 x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d^2 - e^2 x^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((-e^2*x^4+d^2)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d - ex^2)\sqrt{d^2 - e^2 x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^4}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^4/(-e^2*x^4+d^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^3/(-e^2*x^4+d^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^2/(-e^2*x^4+d^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{d^2 - e^2x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)/(-e^2*x^4+d^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a`

Test file number 116

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(d^2 - e^2x^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(-e^2*x^4+d^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (d^2 - e^2x^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)^2/(-e^2*x^4+d^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2}{(d - ex^2) \sqrt{d^2 - e^2x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)/(-e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d^2 - e^2 x^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-e^2*x^4+d^2)^(1/2)/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((-e^2*x^4+d^2)^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{d^2 - e^2 x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(d^2 - e^2x^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(-e^2*x^4+d^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(d^2 - e^2x^4)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(-e^2*x^4+d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{d - ex^2}{(d + ex^2)\sqrt{d^2 - e^2x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((-e*x^2+d)/(e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d^2 - e^2x^4}}{d - ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((-e^2*x^4+d^2)^(1/2)/(-e*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d^2 - e^2 x^4)^{3/2}}{d - ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-e^2*x^4+d^2)^(3/2)/(-e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d - ex^2)\sqrt{d^2 - e^2x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-e*x^2+d)/(-e^2*x^4+d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d - ex^2)(d^2 - e^2x^4)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-e*x^2+d)/(-e^2*x^4+d^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d - ex^2)(d^2 - e^2x^4)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(-e*x^2+d)/(-e^2*x^4+d^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+a)/(e*x^2+d)^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^5} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x^2+d)^2/(c*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex^2)^2(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)^2/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a - cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a - cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{a - cx^4}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{a - cx^4}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{a - cx^4}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*x^4+a)/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a - cx^4)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a - cx^4)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a - cx^4)^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a - cx^4)^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a - cx^4)^2}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)^2/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a - cx^4)^2}{(d + ex^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*x^4+a)^2/(e*x^2+d)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a - cx^4)^2}{(d + ex^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*x^4+a)^2/(e*x^2+d)^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 365

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + cx^4)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(c*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + cx^4)^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(c*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 378

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + cx^4)^2}{(d + ex^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)^2/(e*x^2+d)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^6/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d + ex^2)(a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(e*x^2+d)/(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{12}}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^12/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{10}}{(d+ex^2)^2(a-cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^10/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^4/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^6 (d + ex^2)^2 (a - cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^6/(e*x^2+d)^2/(-c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{10}}{(d + ex^2)(a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^10/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex^2)(a+cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^2) (a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^6 (d + ex^2) (a + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^6/(e*x^2+d)/(c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4`

Test file number 118

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{(d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{12}}{(d+ex^2)^2(a-cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^12/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{10}}{(d+ex^2)^2(a-cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^10/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^8/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d+ex^2)^2(a-cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex^2)^2(a-cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4`

Test file number 118

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^6 (d + ex^2)^2 (a - cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^6/(e*x^2+d)^2/(-c*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{d + ex^2} (a + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(e*x^2+d)^(1/2)*(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + cx^4)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+cx^4)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+cx^4)}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + cx^4)}{x^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^8,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + cx^4)}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + cx^4)}{x^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+a)/x^12,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + cx^4)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(c*x^4+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + cx^4)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^4+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^2\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+a)/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^8 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^8/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^{10}\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^10/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4`

Test file number 118

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + cx^4)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(c*x^4+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + cx^4)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^4+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+a)/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^6 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^6/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^8 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^8/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + cx^4}{x^{10} (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+a)/x^10/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 640

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 641

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 642

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 643

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 644

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 645

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 646

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^8 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^8/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 647

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 648

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 649

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 650

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 651

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 652

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 653

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 654

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 662

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 663

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 664

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 665

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 666

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 676

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 677

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 678

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 679

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 680

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 681

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 682

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 683

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 684

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 685

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 686

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 687

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 688

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 689

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^2) (a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 690

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 692

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 693

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 694

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 695

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3 (a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 696

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 711

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 712

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 713

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 714

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 715

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d + ex^2)(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 716

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 717

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 718

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 719

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 720

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 721

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 722

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x(a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 723

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3 (a + bx^2 + cx^4)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4`

Test file number 118

Integral number in file 724

Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{d + ex^2} (a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(e*x^2+d)^(1/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 744

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 745

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + bx^2 + cx^4) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 746

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 747

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 748

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 751

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bx^2+cx^4)}{x^{12}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(c*x^4+b*x^2+a)/x^12,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 752

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a+bx^2+cx^4)}{\sqrt{d+ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 753

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 754

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 755

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 756

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 757

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 758

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^8\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^8/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 759

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^{10}\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^10/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 760

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2 + cx^4)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4*(c*x^4+b*x^2+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 761

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2 + cx^4)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^4+b*x^2+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^6 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^6/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^8 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^4+b*x^2+a)/x^8/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^2 + cx^4}{x^{10} (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^4+b*x^2+a)/x^10/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex^2) \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 833

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2) \sqrt{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)*(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 834

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 835

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 836

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 837

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x^7,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 838

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x^9} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x^9,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 839

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 868

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 869

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx^2+cx^4}}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f or more de`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4`

Test file number 118

Integral number in file 870

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx^2+cx^4)^{3/2}}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more de tails)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 905

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 906

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e^2-b*d*e>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 907

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 923

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 924

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2)}{\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(B*x^2+A)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 925

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 926

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^3\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^3/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 927

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^5 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^5/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 928

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x^7 \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/x^7/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 929

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^7*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^4+e*x^2+d)/x/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^3(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^4+e*x^2+d)/x^3/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^5(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^4+e*x^2+d)/x^5/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^7(a + bx^2 + cx^4)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^4+e*x^2+d)/x^7/(c*x^4+b*x^2+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4)}{(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(f*x^4+e*x^2+d)/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^4+e*x^2+d)/x/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^3(a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^4+e*x^2+d)/x^3/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^2 + fx^4}{x^5 (a + bx^2 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x^4+e*x^2+d)/x^5/(c*x^4+b*x^2+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^2 + fx^4 + gx^6)}{a + bx^2 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(g*x^6+f*x^4+e*x^2+d)/(c*x^4+b*x^2+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/120_1.2.2.6

Test file number 120

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{(d + ex^2) \sqrt{ad^2 - ae^2x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/(e*x^2+d)/(-a*e^2*x^4+a*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{(d - ex^2)\sqrt{ad^2 - ae^2x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/(-e*x^2+d)/(-a*e^2*x^4+a*d^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7`

Test file number 121

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{bx^2}}{\sqrt{a+b}}}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((1+b^(1/2)*x^2/(a+b)^(1/2))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7`

Test file number 121

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{b}(a+b-\sqrt{b}\sqrt{a+b})x^2}{(a+b)(-\sqrt{b}+\sqrt{a+b})}}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+b^(1/2)*(a+b-b^(1/2)*(a+b)^(1/2))*x^2/(a+b)/(-b^(1/2)+(a+b)^(1/2)))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7`

Test file number 121

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a\sqrt{a+b} + b\sqrt{a+b} + \sqrt{b}(a+b)) \left(1 - \frac{\sqrt{bx^2}}{\sqrt{a+b}}\right)}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*(a+b)^(1/2)+b*(a+b)^(1/2)+b^(1/2)*(a+b))*(1-b^(1/2)*x^2/(a+b)^(1/2)))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{(d + ex^2) \sqrt{ad^2 + bd^2x^2 + (bde - ae^2)x^4}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*x^2+A)/(e*x^2+d)/(a*d^2+b*d^2*x^2+(-a*e^2+b*d*e)*x^4)^(1/2),x
, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{(d - ex^2) \sqrt{ad^2 + bd^2x^2 + (bde - ae^2)x^4}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*x^2+A)/(-e*x^2+d)/(a*d^2+b*d^2*x^2+(-a*e^2+b*d*e)*x^4)^(1/2), x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((1+c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2), x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1-c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a} + \sqrt{cx^2}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^(1/2)+c^(1/2)*x^2)/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a} + \sqrt{cx^2}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a^(1/2)+c^(1/2)*x^2)/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a} - \sqrt{cx^2}}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a^(1/2)-c^(1/2)*x^2)/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b\sqrt{x} + cx} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/2)+c*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt{x} + cx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/2)+c*x)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt{x} + cx)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*x^(1/2)+c*x)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b\sqrt[3]{x} + cx^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int (a + b\sqrt[3]{x} + cx^{2/3})^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int (a + b\sqrt[3]{x} + cx^{2/3})^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt[3]{x} + cx^{2/3}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt[3]{x} + cx^{2/3}}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\sqrt[3]{x} + cx^{2/3})^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*x^(1/3)+c*x^(2/3))^(11/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a`

Test file number 124

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(c*x^6+b*x^3+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a`

Test file number 124

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int x^{14} \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int x^{11} \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int x^8 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(1/2)/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(1/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(1/2)/x^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{13}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(1/2)/x^13,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3 + cx^6}}{x^{16}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^6+b*x^3+a)^(1/2)/x^16,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int x^{14}(a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int x^{11}(a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int x^8 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a`

Test file number 124

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int x^5 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int x^2 (a + bx^3 + cx^6)^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*x^6+b*x^3+a)^(3/2)/x^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{13}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^13,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{16}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^16,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{19}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^19,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3 + cx^6)^{3/2}}{x^{22}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)^(3/2)/x^22,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a`

Test file number 124

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^14/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a`

Test file number 124

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 \sqrt{a + bx^3 + cx^6}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^7/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^10/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{13}\sqrt{a+bx^3+cx^6}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^13/(c*x^6+b*x^3+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{14}}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^14/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^3+cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4(a+bx^3+cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^4/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 (a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^7/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10} (a + bx^3 + cx^6)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^10/(c*x^6+b*x^3+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/125_1.2.3.2_b

Test file number 125

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/125_1.2.3.2_b`

Test file number 125

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(c*x^8+b*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/125_1.2.3.2_b`

Test file number 125

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/125_1.2.3.2_b

Test file number 125

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/125_1.2.3.2_b

Test file number 125

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c+a/x^2+b/x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c+a/x^2+b/x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c+a/x^2+b/x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c+a/x^2+b/x)/x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right) x^6} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c+a/x^2+b/x)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c+a/x^2+b/x)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^6} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^2/x^6,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^2 x^7} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c+a/x^2+b/x)^2/x^7,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^5,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(c+a/x^2+b/x)^3/x^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^7} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^7,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(c + \frac{a}{x^2} + \frac{b}{x}\right)^3 x^8} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c+a/x^2+b/x)^3/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{d + ex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)/(e*x^3+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)/(e*x^3+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx^3 + cx^6}{(d + ex^3)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^6+b*x^3+a)/(e*x^3+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + \frac{e}{x}}{c + \frac{a}{x^2} + \frac{b}{x}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e/x)/(c+a/x^2+b/x),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/128_1.2.3.3_b`

Test file number 128

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3) (a + cx^6)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^2/(e*x^3+d)/(c*x^6+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/129_1.2.3.4_a`

Test file number 129

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3) (a + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^3+d)/(c*x^6+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3)^2 (a + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^3+d)^2/(c*x^6+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3)^2 (a + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^3+d)^2/(c*x^6+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3) (a + cx^6)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^3+d)/(c*x^6+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3) (a + cx^6)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^3+d)/(c*x^6+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3)^2 (a + cx^6)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^3+d)^2/(c*x^6+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3)^2 (a + cx^6)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^5/(e*x^3+d)^2/(c*x^6+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^3)}{a + bx^3 + cx^6} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^3}{x(a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^3+d)/x/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^3}{x^4 (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^3+d)/x^4/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3) (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/129_1.2.3.4_a`

Test file number 129

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3) (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^5/(e*x^3+d)/(c*x^6+b*x^3+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/129_1.2.3.4_a`

Test file number 129

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^3)^2 (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(e*x^3+d)^2/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^3)^2 (a + bx^3 + cx^6)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^3+d)^2/(c*x^6+b*x^3+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/129_1.2.3.4_a

Test file number 129

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(d + ex^4)}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^4)}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^4)}{a + bx^4 + cx^8} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^4+d)/x/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x^5 (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^4+d)/x^5/(c*x^8+b*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x^9(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^4+d)/x^9/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^4) (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^5/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^9 (d + ex^4) (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^9/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^9/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d + ex^4)(a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (d + ex^4) (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 (d + ex^4) (a + bx^4 + cx^8)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^7/(e*x^4+d)/(c*x^8+b*x^4+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}(d + ex^4)}{(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11*(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(d + ex^4)}{(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex^4)}{(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^4+d)/x/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ex^4}{x^5(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^4+d)/x^5/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^11/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 (d + ex^4) (a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x^5/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/130_1.2.3.4_b`

Test file number 130

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{13}}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^13/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^9/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(d + ex^4)(a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (d + ex^4) (a + bx^4 + cx^8)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^3/(e*x^4+d)/(c*x^8+b*x^4+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/130_1.2.3.4_b

Test file number 130

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-2n}}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(x^(2*n))/(d+e*x^n)^2/(a+c*x^(2*n)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-2n}}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(x^(2*n))/(d+e*x^n)^2/(a+b*x^n+c*x^(2*n)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + \frac{c}{x^2} + \frac{b}{x})(d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right)(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^2(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^2/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^3 (d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^3/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^4 (d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^4/(e*x+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^5 (d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+c/x^2+b/x)/x^5/(e*x+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) (d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 212

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^2(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^2/(e*x+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^3 (d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+c/x^2+b/x)/x^3/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^4 (e x + d)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^4/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{c}{x^2} + \frac{b}{x}\right) x^5 (e x + d)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c/x^2+b/x)/x^5/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right)^3 dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + \frac{e^2 x^2}{f^2}} \right) dx = \text{Exception raised: ValueError}$$

input `integrate(d+e*x+f*(a+b*x+e^2*x^2/f^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2*f^2-4*a*e^2>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \left(d + ex + f \sqrt{a + bx + cx^2} \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x+f*(c*x^2+b*x+a)^(1/2))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int (d + ex + f\sqrt{a + bx + cx^2}) dx = \text{Exception raised: ValueError}$$

input

```
integrate(d+e*x+f*(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int (d + ex + f\sqrt{-a + bx - cx^2})^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x+f*(-c*x^2+b*x-a)^(1/2))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int (d + ex + f\sqrt{-a + bx - cx^2}) dx = \text{Exception raised: ValueError}$$

input `integrate(d+e*x+f*(-c*x^2+b*x-a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{ax^2 + bx^3 + cx^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(ax^2 + bx^3 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(ax^2 + bx^3 + cx^4)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^2/(c*x^4+b*x^3+a*x^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^8}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^8/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(ax^2 + bx^3 + cx^4)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4+b*x^3+a*x^2)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx+cx^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/x/(c*x^2+b*x+a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.6_Improper_general_trinomial/140_1.2.6.2

Test file number 140

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{ad + (bd + ae)x + (cd + be)x^2 + cex^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*d+(a*e+b*d)*x+(b*e+c*d)*x^2+c*e*x^3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(ad + (bd + ae)x + (cd + be)x^2 + cex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*d+(a*e+b*d)*x+(b*e+c*d)*x^2+c*e*x^3)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{bx + cx^2 + dx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(d*x^3+c*x^2+b*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b*d-c^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{ad + (bd + ae)x + (cd + be)x^2 + cex^3} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(a*d+(a*e+b*d)*x+(b*e+c*d)*x^2+c*e*x^3),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(ad + (bd + ae)x + (cd + be)x^2 + cex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((C*x^2+B*x+A)/(a*d+(a*e+b*d)*x+(b*e+c*d)*x^2+c*e*x^3)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{acx^2 + bcx^4}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*c*x^4+a*c*x^2)^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a + bx^2)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2*(b*x^2+a))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x^2(ac + bcx^2)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((x^2*(b*c*x^2+a*c))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx(ax + bx^3)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x*(b*x^3+a*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c(ax^2 + bx^4)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*(b*x^4+a*x^2))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x(ax + bcx^3)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((x*(b*c*x^3+a*c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e^2-4*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e^2-4*c*d>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e^2-4*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+ex+dx^2}\sqrt{a^2+2abx^2+b^2x^4}}{x^6} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x^6,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e^2-4*c*d>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{2 - 2x - x^2}{(2 + d + dx + x^2)\sqrt{1 + x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((-x^2-2*x+2)/(d*x+x^2+d+2)/(x^3+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(d+2)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{2 + 2x - x^2}{(2 - d + dx + x^2)\sqrt{1 - x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((-x^2+2*x+2)/(d*x+x^2-d+2)/(-x^3+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(2-d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{2 + 2x - x^2}{(2 - d + dx + x^2) \sqrt{-1 + x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((-x^2+2*x+2)/(d*x+x^2-d+2)/(x^3-1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(2-d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{2 - 2x - x^2}{(2 + d + dx + x^2) \sqrt{-1 - x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((-x^2-2*x+2)/(d*x+x^2+d+2)/(-x^3-1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d^2-4*(d+2)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^2}}{x^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(1/2)/x^5,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(1/2)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^2}}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(1/2)/x^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^7,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^2)^{3/2}}{x^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^2)^(3/2)/x^8,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^n}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^n)^(1/2)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n/2-2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{dx^n}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^n)^(1/2)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(n/2-3>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^n)^(3/2)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^n)^(3/2)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-3>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^n)^{3/2}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^n)^(3/2)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((3*n)/2-4>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{dx^n}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(d*x^n)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2-n/2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{dx^n}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(d*x^n)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-n/2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{dx^n}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(d*x^n)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-n/2>0)', see `assume?` for more details)I

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(dx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(d*x^n)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2-(3*n)/2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(dx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(d*x^n)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*n)/2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(dx^n)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(d*x^n)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*n)/2>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2(a+bx)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)/x^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}(a+bx)}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}(a+bx)}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}(a+bx)}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)^2/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)^2/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)^2/x^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}(a+bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)*(b*x+a)^2/x^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)^2/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)^2/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2} (a + bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(3/2)*(b*x+a)^2/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)^2/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)^2/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)^2/x^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2} (a + bx)^2}{x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(5/2)*(b*x+a)^2/x^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 309

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x(a + bx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*x^2)^(1/2)/x/(b*x+a),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{x}{(a+bx^2)^{3/2}} + \frac{x}{(1+x^2)\sqrt{a+bx^2}} \right) dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^(3/2)+x/(x^2+1)/(b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(1+a+x^2+bx^2)}{(1+x^2)(a+bx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b*x^2+x^2+a+1)/(x^2+1)/(b*x^2+a)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \left(\frac{x}{(a+bx^2)^{5/2}} + \frac{x}{(a+bx^2)^{3/2}} + \frac{x}{(1+x^2)\sqrt{a+bx^2}} \right) dx = \text{Exception raised: ValueError}$$

input `integrate(x/(b*x^2+a)^(5/2)+x/(b*x^2+a)^(3/2)+x/(x^2+1)/(b*x^2+a)^(1/2),x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(1+a+a^2+x^2+ax^2+bx^2+2abx^2+bx^4+b^2x^4)}{(1+x^2)(a+bx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b^2*x^4+b*x^4+2*a*b*x^2+a*x^2+b*x^2+a^2+x^2+a+1)/(x^2+1)/(b*x^2+a)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{a - b + \frac{b}{x^2}x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((x^2-1)/(a-b+b/x^2)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{a + b \left(-1 + \frac{1}{x^2}\right)x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((x^2-1)/(a+b*(-1+1/x^2))^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + bx + cx^2}{(d + ex)^3 \sqrt{-1 + x^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*x^2+b*x+a)/(e*x+d)^3/(x^2-1)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-d)*(e+d)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(a + bx)(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((b*x+a)*(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m ore detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{(a+bx)(c-dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/((b*x+a)*(-d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 432

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 437

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + be^x + ce^{2x}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*exp(x)+c*exp(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 442

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bf^{c+dx} + cf^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bfg^{hx} + cf^{2(g+hx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 445

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bf^{c+dx} + cf^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 447

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bf^{c+dx} + cf^{2c+2dx}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*f^(d*x+c)+c*f^(2*d*x+2*c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + e f^{g+hx}}{a + b f^{g+hx} + c f^{2g+2hx}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*f^(h*x+g))/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + e f^{g+hx}}{a + b f^{g+hx} + c f^{2(g+hx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*f^(h*x+g))/(a+b*f^(h*x+g)+c*f^(2*h*x+2*g)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b*c-a^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a^2-4*b*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 461

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + be^{-x} + ce^x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(a+b/exp(x)+c*exp(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a^2-4*b*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 462

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b*c-a^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 463

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a^2-4*b*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + bf^{-c-dx} + cf^{c+dx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2/(a+b*f^(-d*x-c)+c*f^(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a^2-4*b*c>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int a^x b^x dx = \text{Exception raised: ValueError}$$

input

```
integrate(a^x*b^x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(log(b)/log(a)>0)', see `assume?`
for more
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: ValueError}$$

input

```
integrate(a^x/(b^x),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(-log(b)/log(a)>0)', see `assume?
` for more
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int a^x b^x c^x dx = \text{Exception raised: ValueError}$$

input

```
integrate(a^x*b^x*c^x,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(log(c)/log(a)+log(b)/log(a)>0)',
see `assu
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)^3}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d+e*exp(i*x+h))*(g*x+f)^3/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)^2}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d+e*exp(i*x+h))*(g*x+f)^2/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ee^{h+ix})(f + gx)}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*exp(i*x+h))*(g*x+f)/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{d + ee^{h+ix}}{a + be^{h+ix} + ce^{2h+2ix}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*exp(i*x+h))/(a+b*exp(i*x+h)+c*exp(2*i*x+2*h)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int F^{c+d \arctan(a+bx)^n} dx = \text{Exception raised: RuntimeError}$$

input `integrate(F^(c+d*arctan(b*x+a)^n),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(1+I*(b*x+a))*(1+(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-3i \arctan(a+bx)}}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(1+I*(b*x+a))^3*(1+(b*x+a)^2)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="ma
xima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{(1+a^2x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(1+I*a*x)/(a^2*x^2+1),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3i \arctan(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-2i \arctan(ax)} x^2}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(1+I*a*x)^2*(a^2*x^2+1)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 392

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-4i \arctan(ax)} x^2}{(c + a^2 cx^2)^9} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(1+I*a*x)^4*(a^2*x^2+1)^2/(a^2*c*x^2+c)^9,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{5i \arctan(ax)} x^2}{(c + a^2 cx^2)^{27/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)^5/(a^2*x^2+1)^(5/2)*x^2/(a^2*c*x^2+c)^(27/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3i \arctan(ax)} x^2}{(c + a^2 c x^2)^{11/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^2/(a^2*c*x^2+c)^(11/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)} x^2}{(c + a^2 c x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 396

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/162_2.5.2

Test file number 162

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/162_2.5.2

Test file number 162

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/162_2.5.2

Test file number 162

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/162_2.5.2

Test file number 162

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arccosh}(a+bx)}}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+(b*x+a-1)^(1/2)*(b*x+a+1)^(1/2))/x^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/162_2.5.2

Test file number 162

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 859

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 860

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 861

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 862

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 876

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/((1-(b*x+a)^2)^(3/2))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 877

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/((1-(b*x+a)^2)^(3/2))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 878

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/((1-(b*x+a)^2)^(3/2)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 879

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a+1)*(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 884

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 986

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 987

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1193

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1194

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1195

Maxima [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1196

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\arctanh(ax)} \sqrt{c - a^2cx^2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1197

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1198

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1202

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1330

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1331

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1332

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{9/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(9/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1333

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{sech}^{-1}(ax)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))^3*x^m,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int e^{2\operatorname{sech}^{-1}(ax)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))^2*x^m,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^3)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x^3+(-1+1/a/x^3)^(1/2))*(1/a/x^3+1)^(1/2))*x^m,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2))*(1+1/a/x^2)^(1/2))*x^m,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/(x^p))+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))*x^m,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-p>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} x dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/(x^p))+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2))*x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-p>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^p)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/a/(x^p)+(-1+1/a/(x^p))^(1/2)*(1+1/a/(x^p))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-p>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2*x^m,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax^2)} x^m dx = \text{Exception raised: ValueError}$$

input `integrate((1/a/x^2+(1+1/a^2/x^4)^(1/2))*x^m,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 844

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 845

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 846

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)/(1-(b*x+a)^2)^(1/2)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 847

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 861

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 862

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 863

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(a+bx)}}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((b*x+a+1)^3/(1-(b*x+a)^2)^(3/2)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 864

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(a+bx)}}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(b*x+a+1)*(1-(b*x+a)^2)^(1/2)/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 869

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 971

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 972

Maxima [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \sqrt{c - a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 973

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1178

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^2 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1179

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x \sqrt{c - a^2 c x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1180

Maxima [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1181

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\arctanh(ax)} \sqrt{c - a^2cx^2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1182

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1183

Maxima [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1187

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1315

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1316

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1317

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}}{(c - a^2cx^2)^{9/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)/(-a^2*c*x^2+c)^(9/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1318

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^3/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^2/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n)(ax^m + b \log^q(cx^n))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx$$

= Exception raised: RuntimeError

input `integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x,
algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^2}{x} dx$$

= Exception raised: RuntimeError

input `integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^2/x,x,
algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))}{x} dx$$

= Exception raised: RuntimeError

input `integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^3/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^2/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n))(ax^m + b \log^q(cx^n))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(d\sqrt{-\frac{e}{d}}+ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(2*x*(d*(-e/d)^(1/2)+e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(d\sqrt{-\frac{e}{d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(-2*x*(d*(-e/d)^(1/2)-e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}+ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(2*x*(d*e^(1/2)/(-d)^(1/2)+e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(log(-2*x*(d*e^(1/2)/(-d)^(1/2)-e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(\sqrt{d}\sqrt{-e}+ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(log(2*x*(d^(1/2)*(-e)^(1/2)+e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(log(-2*x*(d^(1/2)*(-e)^(1/2)-e*x)/(e*x^2+d))/(e*x^2+d),x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int x^4 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int x^3 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int x^2 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int x \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(x*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^4 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^4*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^3 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^3*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^2 \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^2*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int (d + ex) \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)*log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \log(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a+bx+cx^2)^n)}{(d+ex)^5} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/(e*x+d)^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(d(a + bx + cx^2)^n)}{ae + bex + cex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)/(c*e*x^2+b*e*x+a*e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(g(a + bx + cx^2)^n)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(g*(c*x^2+b*x+a)^n)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more de tails)Is e`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(g(a + bx + cx^2)^n)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(g*(c*x^2+b*x+a)^n)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \log^2(d(a + bx + cx^2)^n) dx = \text{Exception raised: ValueError}$$

input `integrate(log(d*(c*x^2+b*x+a)^n)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(ax^n)^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((log(a*x^n)^2)^p/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^m(ax^n)^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((log(a*x^n)^m)^p/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(b \log^m(ax^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*log(a*x^n)^m)^p/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int (dx)^m (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^m*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int x(a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p/x^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p/x^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int x^{-1+n}(a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(-1+n)*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4(d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx)}{1 - ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x))/(-e*x^2+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{1 - ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(-e*x^2+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+ex^2}(a+b\log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{d+ex^2}(a+b\log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int x^5 (d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \log(cx^n)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \log(cx^n))}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*log(c*x^n))/x^10,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^6 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^6/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^7*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^3(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \log(cx^n))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*log(c*x^n))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x^4 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/x^4/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3/(e*x^3+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2/(e*x^3+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{(d + ex^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^3+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-5>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 375

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)(a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-5>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^2 (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^2*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-8>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-3>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 394

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-5>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-4>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-6>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-8>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^r)^3 (a + b \log(cx^n))}{x^{10}} dx = \text{Exception raised: ValueError}$$

input `integrate((d+e*x^r)^3*(a+b*log(c*x^n))/x^10,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(r-10>0)', see `assume?` for more details)I`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^3 (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(d+e*x^r)^3*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 446

Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^2 (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(d+e*x^r)^2*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 447

Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r) (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(d+e*x^r)*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 448

Maxima [F(-2)]

Exception generated.

$$\int (fx)^m (a + b \log(cx^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*log(c*x^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + b \log(cx^n))^p}{d + ex^r} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*log(c*x^n))^p/(d+e*x^r),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (a + b \log(cx^n))^p}{(d + ex^r)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*log(c*x^n))^p/(d+e*x^r)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{d + ex + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))/(f*x^2+e*x+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n)) \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n)) \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^2)^m)}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))*log(d*(f*x^2+e)^m)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^2 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^2 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^2*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^3 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^3 \log(d(e + fx^2)^m) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^2)^m)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^2)^m)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*x^n))^3*log(d*(f*x^2+e)^m)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int (gx)^m (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x)^m*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int x(a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^p (d + e \log(fx^r))}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*x^n))^p*(d+e*log(f*x^r))/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int (ex)^q (a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x)^q*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int x(a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(dx^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*x^m)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(dx^m)^n))^p}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*x^m)^n))^p/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(dx^m)^n))^p}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*x^m)^n))^p/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(dx^m)^n)}{e + fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*x^m)^n))/(f*x^2+e),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log\left(\frac{a+bx}{(bc-ad)x}\right)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(log(x)*log((b*x+a)/(-a*d+b*c)/x)/x,x, algorithm="maxima")`

output Exception raised: TypeError >> unable to make sense of Maxima expression 'li[2]' in Sage

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log \left(e^{\left(\frac{a+bx}{c+dx} \right)^n} \right)}{f + gx + hx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(e*((b*x+a)/(d*x+c))^n)/(h*x^2+g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(e^{\left(\frac{a+bx}{c+dx}\right)^n}\right)}{x(f+gx+hx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(log(e*((b*x+a)/(d*x+c))^n)/x/(h*x^2+g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log\left(e^{\left(\frac{a+bx}{c+dx}\right)^n}\right)}{x^2(f+gx+hx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(log(e*((b*x+a)/(d*x+c))^n)/x^2/(h*x^2+g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*f*h-g^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 \left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)} \right)}{(a+bx)(e+fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))^2/(b*x+a)/(f*x+e),x,
algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: Memory limit reached. Please j
ump to an outer pointer, quit program and enlarge thememory limits before
executing the program again.
```

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 \left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)} \right)}{e+fx} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))^2/(f*x+e),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log \left(\frac{(be-af)(c+dx)}{(de-cf)(a+bx)} \right) \log \left(\frac{b(e+fx)}{be-af} \right)}{(a+bx)(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log((-a*f+b*e)*(d*x+c)/(-c*f+d*e)/(b*x+a))*log(b*(f*x+e)/(-a*f+b*e))/(b*x+a)/(d*x+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge the memory limits before executing the program again.

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^{3/2} (a + b \log(c(d + ex)^n)) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{f+gx}(a+b\log(c(d+ex)^n)) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\log(c(d+ex)^n)}{\sqrt{f+gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))/(g*x+f)^(9/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^{3/2} (a + b \log(c(d + ex)^n))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{f + gx} (a + b \log(c(d + ex)^n))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^2}{(f + gx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^2/(g*x+f)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^m*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^n}{f + gx} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(e*x+d)^n))^n/(g*x+f),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{5/2} (a + b \log(c(d + ex)^n))}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(5/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^{3/2} (a + b \log(c(d + ex)^n))}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(3/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f + gx} (a + b \log(c(d + ex)^n))}{d + ex} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(a+b*log(c*(e*x+d)^n))/(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(e*x+d)^n))/(e*x+d)/(g*x+f)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2} \log(a + bx)}{a + bx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x+d)^(3/2)*log(b*x+a)/(b*x+a),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex} \log(a+bx)}{a+bx} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*log(b*x+a)/(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a+bx)}{(a+bx)\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a + bx)}{(a + bx)(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(a + bx)}{(a + bx)(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(log(b*x+a)/(b*x+a)/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*e-b*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)^3/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(a+bx)^n)}{d+ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 331

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)^3/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)^2/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 348

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(a+bx)^n)}{d+ex+fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(b*x+a)^n)/(f*x^2+e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d*f-e^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 351

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(log(x)/x/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x^2(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(log(x)/x^2/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x)}{x^3(a+bx+cx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(log(x)/x^3/(c*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \log(fx^m)(a+b\log(c(dx+e)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(f*x^m)*(a+b*log(c*(e*x+d)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 377

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^m)^n))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^m)^n))^p,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 437

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^{3/2} (a + b \log(c(d(e + fx)^p)^q)) dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^(3/2)*(a+b*log(c*(d*(f*x+e)^p)^q)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{g+hx}(a+b\log(c(d(e+fx)^p)^q)) dx = \text{Exception raised: ValueError}$$

input

```
integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\log(c(d(e+fx)^p)^q)}{\sqrt{g+hx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(7/2),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d(e + fx)^p)^q)}{(g + hx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))/(h*x+g)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 507

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^{3/2} (a + b \log(c(d(e + fx)^p)^q))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^(3/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 508

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{g + hx}(a + b \log(c(d(e + fx)^p)^q))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((h*x+g)^(1/2)*(a+b*log(c*(d*(f*x+e)^p)^q))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 509

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{\sqrt{g + hx}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 510

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more
detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 511

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 512

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(7/2),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 513

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^2}{(g + hx)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^2/(h*x+g)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*h-f*g>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 514

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x+g)^m*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 532

Maxima [F(-2)]

Exception generated.

$$\int (g + hx)^2 (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x+g)^2*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 533

Maxima [F(-2)]

Exception generated.

$$\int (g + hx) (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x+g)*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 534

Maxima [F(-2)]

Exception generated.

$$\int (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 535

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d(e + fx)^p)^q))^n}{g + hx} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*(f*x+e)^p)^q))^n/(h*x+g),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 536

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*(b*x^2+a)^p)^3/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int x \log^2(c(d + ex^3)^p) dx = \text{Exception raised: ValueError}$$

input `integrate(x*log(c*(e*x^3+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \log^2 (c(d + ex^3)^p) dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^3+d)^p)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2 (c(d + ex^3)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^3+d)^p)^2/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^3)^p)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^3+d)^p)^2/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^3)^p)}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^3+d)^p)^2/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^3 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^3*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^2 \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^2)^p)}{(f+gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)^2/(g*x^2+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int (f+gx^2) \log^3(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3(c(d+ex^2)^p)}{(f+gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)^3/(g*x^2+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int (f+gx^3)^3 \log(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)^3*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{(f + gx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/(g*x^3+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^3 \log^2(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)^3*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3)^2 \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log^2 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)*log(c*(e*x^2+d)^p)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^2(c(d+ex^2)^p)}{(f+gx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)^2/(g*x^3+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int (f+gx^3)^2 \log^3(c(d+ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)^2*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^3) \log^3 (c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^3+f)*log(c*(e*x^2+d)^p)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^3 (c(d + ex^2)^p)}{(f + gx^3)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)^3/(g*x^3+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int x^2(f + gx^2) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2) \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2) \log(c(d + ex^2)^p)}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)*log(c*(e*x^2+d)^p)/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int x^2 (f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int (f + gx^2)^2 \log(c(d + ex^2)^p) dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^2)^2 \log(c(d + ex^2)^p)}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x^2+f)^2*log(c*(e*x^2+d)^p)/x^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \log(c(d + ex^2)^p)}{f + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*log(c*(e*x^2+d)^p)/(g*x^2+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(c(d + ex^2)^p)}{f + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*log(c*(e*x^2+d)^p)/(g*x^2+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^2(f + gx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/x^2/(g*x^2+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^4(f + gx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/x^4/(g*x^2+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/(g*x^2+f)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^2)^p)}{x^2(f + gx^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(e*x^2+d)^p)/x^2/(g*x^2+f)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 356

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{2n})^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f+g*x^(2*n))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^n)^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f+g*x^n)^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 382

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{-n})^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f+g/(x^n))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{-2n})^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f+g/(x^(2*n)))^2*log(c*(d+e*x^n)^p)^q/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 384

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{2n})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*(d+e*x^n)^p)^q/x/(f+g*x^(2*n)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^n)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*(d+e*x^n)^p)^q/x/(f+g*x^n),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{-n})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*(d+e*x^n)^p)^q/x/(f+g/(x^n)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d + ex^n)^p)}{x(f + gx^{-2n})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*(d+e*x^n)^p)^q/x/(f+g/(x^(2*n))),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 388

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right) dx = \text{Exception raised: ValueError}$$

input `integrate(a+b*log(c*(d+e*x^(2/3))^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log \left(c(d + ex^{2/3})^n \right)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex^{2/3})^n)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log(c(d + ex^{2/3})^n) \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 477

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^2}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 479

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^2}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^2/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e*x^(2/3))^n))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^3/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e*x^(2/3))^n))^3/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 509

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right) dx = \text{Exception raised: ValueError}$$

input `integrate(a+b*log(c*(d+e/x^(2/3))^n),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 511

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 513

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 515

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 521

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^2 dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 522

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right)\right)^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))^2/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 523

Maxima [F(-2)]

Exception generated.

$$\int x^2 \left(a + b \log\left(c\left(d + \frac{e}{x^{2/3}}\right)^n\right)\right)^3 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*log(c*(d+e/x^(2/3))^n))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 528

Maxima [F(-2)]

Exception generated.

$$\int \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3 dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 529

Maxima [F(-2)]

Exception generated.

$$\int \frac{\left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))^3/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 530

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + \frac{e}{x^{2/3}})^n))^3}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*log(c*(d+e/x^(2/3))^n))^3/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 531

Maxima [F(-2)]

Exception generated.

$$\int \log(c(d + e(f + gx)^2)^q) dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(d+e*(g*x+f)^2)^q),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 717

Maxima [F(-2)]

Exception generated.

$$\int \log \left(c \left(d + \frac{e}{(f + gx)^2} \right)^q \right) dx = \text{Exception raised: ValueError}$$

input `integrate(log(c*(d+e/(g*x+f)^2)^q),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 720

Maxima [F(-2)]

Exception generated.

$$\int \log^3(a + b \tan(c + dx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(a+b*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: BINDING-STACK overflow at size 10240. Stack can probably be resized.Proceed with caution.`

input file name test_cases/rubi_tests/3_Logarithms/177_3.9

Test file number 177

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \log^2(a + b \tan(c + dx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(a+b*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: BINDING-STACK overflow at size 10240. Stack can probably be resized.Proceed with caution.`

input file name test_cases/rubi_tests/3_Logarithms/177_3.9

Test file number 177

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 428

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 429

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 430

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 431

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 432

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 433

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 441

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 442

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 443

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 445

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^8(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^8/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin(c + dx))^8} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for m ore detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 475

Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx)(a + b \sin(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \sec^5(c + dx)(a + b \sin(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5*(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 507

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{\sqrt{a + b \sin(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 508

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 516

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 517

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sin(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 518

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 527

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 528

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sin(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sin(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 529

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^4/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^3/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^3/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^4/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^4/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^3/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^3/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^5/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^4/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^3/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^3/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 438

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 439

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 440

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))/(c+d*sin(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 441

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 447

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 448

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c + d \sin(e + fx))^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c + d \sin(e + fx))^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 475

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 477

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(e + fx)}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 682

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(e + fx)}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 683

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(e + fx)}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 684

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 689

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 690

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 692

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^3}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 697

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^3}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 698

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^3}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^3}{(c + d \sin(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \sin(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*B/a+B*sin(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 701

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{aB}{b} + B \sin(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B/b+B*sin(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 702

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(x)}{(b + a \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(x))/(b+a*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 703

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 705

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 706

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 707

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 708

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 709

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 710

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 711

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 712

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 713

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 714

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 715

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 716

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 717

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^2(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 718

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 719

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 720

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^5}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^5/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 721

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^4}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^4/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 722

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 723

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 724

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sin(f*x+e))/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 725

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 726

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 727

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 728

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` for more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 729

Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-1+n} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))(-1-m-n)*(a+a*sin(f*x+e))m*(c-c*sin(f*x+e))(-1+n),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-2+n} dx$$

= Exception raised: RuntimeError

input

```
integrate((g*cos(f*x+e))^(-1-m-n)*(a+a*sin(f*x+e))^m*(c-c*sin(f*x+e))^(-2+n),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int (g \cos(e + fx))^{-1-m-n} (a + a \sin(e + fx))^m (c - c \sin(e + fx))^{-3+n} dx$$

= Exception raised: RuntimeError

input

```
integrate((g*cos(f*x+e))^(-1-m-n)*(a+a*sin(f*x+e))^m*(c-c*sin(f*x+e))^(-3+n),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1074

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1075

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1076

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1077

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1078

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1079

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1080

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1081

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1082

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1083

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1084

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1085

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1086

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1123

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1124

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1126

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1127

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1128

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1129

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1130

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1131

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1132

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1133

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1135

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*cot(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1136

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1138

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1252

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1253

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1254

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5*cot(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1255

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*cot(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1256

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*cot(d*x+c)^3/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1257

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*cot(d*x+c)^4/(a+b*sin(d*x+c))^2,x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1258

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^5/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1259

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1260

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6*csc(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1262

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1263

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1264

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5*cot(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1265

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \cot^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*cot(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1266

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot^3(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*cot(d*x+c)^3/(a+b*sin(d*x+c))^3,x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1267

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^4/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1268

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^5/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1269

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1270

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6*csc(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1271

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*sin(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1281

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1282

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1283

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1284

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1285

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1286

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1287

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1288

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1289

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) \csc^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2*csc(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c+dx) \sin^3(c+dx)}{a+b \sin(c+dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1297

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1298

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1299

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1300

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1301

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1302

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1303

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1304

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1305

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c+dx) \sin^3(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1316

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c+dx) \sin^2(c+dx)}{a+b\sin(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1317

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^6*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1318

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1320

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*cot(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1321

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1322

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^5(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^5/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1323

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1324

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1325

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1326

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(c + dx) \csc^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^6*csc(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1327

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(d*x+c)^3*tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1334

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2*tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1335

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)*tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1336

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1337

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*tan(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1338

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1339

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1340

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1341

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1348

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*tan(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1349

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) \tan^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*tan(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1350

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) \tan(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*tan(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1351

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1352

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1353

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^4(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^3*sec(d*x+c)^4/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1354

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g \cos(e + fx)} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(1/2)*csc(f*x+e)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1371

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{g \cos(e + fx)} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(1/2)*csc(f*x+e)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1372

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(3/2)*csc(f*x+e)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1377

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(3/2)*csc(f*x+e)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1378

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{5/2} \csc^2(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(5/2)*csc(f*x+e)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1383

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{5/2} \csc^3(e + fx)}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*cos(f*x+e))^(5/2)*csc(f*x+e)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1384

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{\sqrt{g \cos(e + fx)(a + b \sin(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(f*x+e)^2/(g*cos(f*x+e))^(1/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1390

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{\sqrt{g \cos(e + fx)(a + b \sin(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(f*x+e)^3/(g*cos(f*x+e))^(1/2)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1391

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{(g \cos(e + fx))^{3/2}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(csc(f*x+e)^2/(g*cos(f*x+e))^(3/2)/(a+b*sin(f*x+e)),x, algorithm=
"maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1397

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(e + fx)}{(g \cos(e + fx))^{5/2}(a + b \sin(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(csc(f*x+e)^2/(g*cos(f*x+e))^(5/2)/(a+b*sin(f*x+e)),x, algorithm=
"maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1403

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2*tan(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1460

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)*tan(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1461

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1462

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*tan(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1463

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1464

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1465

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx) \tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2*tan(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1467

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c+dx)\tan^2(c+dx)}{(a+b\sin(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(d*x+c)*tan(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima"
)
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1469

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) \tan(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*tan(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1470

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1471

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1472

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(c + dx) \sec^2(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^3*sec(d*x+c)^2/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1473

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^{4/3}}{a + b \sin(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(f*x+e)^2*(c+d*sin(f*x+e))^(4/3)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1515

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(e + fx)}{(a + b \sin(e + fx))^2 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(f*x+e)^2/(a+b*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/184_4.1.2.3

Test file number 184

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(e + fx)(A + B \sin(e + fx))}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(f*x+e)^2*(A+B*sin(f*x+e))/(a+b*sin(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm m="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm m="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c+d*sin(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^2,x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c + d \sin(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c+d*sin(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sin(e + fx))^2 (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 352

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*sin(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*sin(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*sin(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sin(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^5/(a+b*sin(d*x+c)^3),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^4/(a+b*sin(d*x+c)^3),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sin^3(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)^3),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \cos(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c*cos(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \cos(x)}{a - b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c+cos(x))/(a-b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cot(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sec(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \csc(x)}{a + b \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*csc(x))/(a+b*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/190_4.1.8

Test file number 190

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)^3/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/191_4.1.9

Test file number 191

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/191_4.1.9

Test file number 191

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/191_4.1.9

Test file number 191

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(x)}{a + b \sin(x) + c \sin^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)^3/(a+b*sin(x)+c*sin(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/191_4.1.9

Test file number 191

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^3/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \sin(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(a+b*sin(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^3/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(a+b*sin(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*sin(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(d*x+c)^3/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{(e + fx)^2(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(d*x+c)^3/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*csc(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^2/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(e + fx)^2(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^2/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sin(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sin(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*sec(d*x+c)^3/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^3/(f*x+e)/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(e + fx)^2(a + a \sin(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^3/(f*x+e)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \sec(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^m*sec(d*x+c)/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \sec^2(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^m*sec(d*x+c)^2/(a+a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 299

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 301

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)^3/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sec(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx)}{(a + b \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)/(a+b*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^2*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)*cos(d*x+c)^2*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 331

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)*cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) \cot(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*cot(d*x+c)/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^3*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)^2*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 339

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^3*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((f*x+e)^2*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)*cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((f*x+e)^3*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
m="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((f*x+e)^2*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm
m="maxima")
```


output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cos^3(c + dx) \cot^2(c + dx)}{a + b \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((f*x+e)*cos(d*x+c)^3*cot(d*x+c)^2/(a+b*sin(d*x+c)),x, algorithm=
"maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sin(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3/(a+b*sin(d*x^2+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + b \sin(c + dx^3))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \sin(c + dx^3))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + b \sin(c + dx^3))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a+b*sin(d*x^3+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int (c \cos^m(a + bx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*cos(b*x+a)^m)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: BINDING-STACK overflow at size 10240. Stack can probably be resized.Proceed with caution.`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/199_4.2.1.2

Test file number 199

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/199_4.2.1.2

Test file number 199

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/199_4.2.1.2

Test file number 199

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/199_4.2.1.2

Test file number 199

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/199_4.2.1.2

Test file number 199

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/200_4.2.1.3

Test file number 200

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/200_4.2.1.3

Test file number 200

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^2/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/200_4.2.1.3

Test file number 200

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^4/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/200_4.2.1.3

Test file number 200

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x+e)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/201_4.2.10

Test file number 201

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int x^{5/2} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(5/2)*cos(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int x^{3/2} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(3/2)*cos(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{x} \cos(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(1/2)*cos(b*x^2+a),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{\sqrt{x}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)/x^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{x^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)/x^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(a + bx^2)}{x^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)/x^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int x^{5/2} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(5/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int x^{3/2} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(3/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{x} \cos^2(a + bx^2) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^(1/2)*cos(b*x^2+a)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{\sqrt{x}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)^2/x^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{x^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)^2/x^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(a + bx^2)}{x^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(b*x^2+a)^2/x^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> Encountered operator mismatch in maxima-to-sr translation

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/202_4.2.12

Test file number 202

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(c+dx)(a+a\cos(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c+dx)}{a+b\cos(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 461

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 462

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 463

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 471

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 475

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 477

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 479

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 481

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(c+dx)(a+b\cos(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 601

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-\cos(x)}}{\sqrt{a-\cos(x)}} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(x))^(1/2)/(a-cos(x))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\frac{1 - \cos(x)}{a - \cos(x)}} dx = \text{Exception raised: ValueError}$$

input `integrate(((1-cos(x))/(a-cos(x)))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*B/a+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos(c + dx)}{(b + a \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cos(d*x+c))/(b+a*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algorithm m="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}(A + B \cos(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c+dx)(A+B\cos(c+dx))}{(a+b\cos(c+dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(aB + bB \cos(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \cos(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(aB + bB \cos(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \cos(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B+b*B*cos(d*x+c))/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{(aB + bB \cos(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*B+b*B*cos(d*x+c))*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm
m="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorith
m="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 381

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{a + a \cos(c + dx)} \sqrt{\sec(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2)/sec(d*x+c)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 526

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c))^3,x, algori
thm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx) (A + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cos(d*x+c)^(3/2)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, al
gorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 417

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 423

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + a \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+a*cos(d*x+c)
)^3,x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx$$

= Exception raised: RuntimeError

input

```
integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c)
)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 562

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 563

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 564

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 565

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 567

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 568

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 569

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 570

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 571

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 572

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 573

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 574

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 575

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 576

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 577

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 578

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 579

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 580

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 581

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 582

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 583

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 584

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 585

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 586

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 587

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 588

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 589

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 590

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 591

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 592

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 593

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 594

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (1 - \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 595

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 596

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 597

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 598

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 599

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 600

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 601

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 602

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c+dx)(1-\cos^2(c+dx))}{(a+b\cos(c+dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 603

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c+dx)(1-\cos^2(c+dx))}{(a+b\cos(c+dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 604

Maxima [F(-2)]

Exception generated.

$$\int \frac{1-\cos^2(c+dx)}{(a+b\cos(c+dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 605

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 606

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 607

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 608

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 609

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 610

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 611

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(1 - \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 612

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c+dx)(1-\cos^2(c+dx))}{(a+b\cos(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 613

Maxima [F(-2)]

Exception generated.

$$\int \frac{1-\cos^2(c+dx)}{(a+b\cos(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 614

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 615

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((1-cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 616

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 617

Maxima [F(-2)]

Exception generated.

$$\int \frac{(1 - \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((1-cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 618

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 619

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 620

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 621

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 622

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 725

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 795

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 796

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, alg
orithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 797

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 798

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 799

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 800

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 801

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 802

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 803

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 804

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 805

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 806

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 807

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 808

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 809

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 810

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 811

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 812

Maxima [F(-2)]

Exception generated.

$$\int \frac{(B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 813

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 895

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 977

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 978

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 979

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 980

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 981

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 982

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 983

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 984

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^5(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^5/(a+b*cos(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 985

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 986

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 987

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm=
"maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 989

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^2,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 990

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 991

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 992

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+b*cos(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 993

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 994

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 995

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 996

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 998

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 999

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1000

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

input

```
integrate(cos(d*x+c)^4*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1001

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1002

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx$$

= Exception raised: ValueError

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1003

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1004

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1005

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+b*cos(d*x+c))^4,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1006

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+b*cos(d*x+c))^4,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1007

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+b*cos(d*x+c))^4,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1008

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{a + b \cos(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1009

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1010

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1011

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c))^4,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1012

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \cos(c + dx) + b^2C \cos^2(c + dx)}{(a + b \cos(c + dx))^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-a^2*C+b^2*B*cos(d*x+c)+b^2*C*cos(d*x+c)^2)/(a+b*cos(d*x+c
))^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1013

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + b \cos(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+b*cos(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1114

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)} \sec^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2)/sec(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1238

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)} \sec^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2)/sec(d*x+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 1344

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sin(x))/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sin(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c*sin(x))/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sin(x)}{a - b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c+sin(x))/(a-b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(x))/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cot(x))/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \csc(x)}{a + b \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*csc(x))/(a+b*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^4}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sec(f*x+e))^4/(a+b*cos(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sec(f*x+e))^3/(a+b*cos(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sec(f*x+e))^2/(a+b*cos(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{a + b \cos(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sec(f*x+e))/(a+b*cos(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(e + fx))(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{a + b \cos(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + b \cos(d + ex))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+b*cos(e*x+d))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/212_4.2.8

Test file number 212

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(x)^5/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/213_4.2.9

Test file number 213

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^3/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/213_4.2.9

Test file number 213

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/213_4.2.9

Test file number 213

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/213_4.2.9

Test file number 213

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \cos(x) + c \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^3/(a+b*cos(x)+c*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/213_4.2.9

Test file number 213

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^8,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{7/2} (a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{7/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{15/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*sec(d*x+c))^(15/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{13/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(13/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{11/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/3}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{d \sec(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{d \sec(e + fx)(a + ia \tan(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/3} (a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 274

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \sec(e + fx))^{5/3}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{d \sec(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{d \sec(e + fx)}(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*sec(f*x+e))^(1/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/3} (a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(d*sec(f*x+e))^(5/3)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{-2-n} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(2-n),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{-1-n} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(1-n),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{2n} (a + ia \tan(e + fx))^{3-n} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d*sec(f*x+e))^(2*n)*(a+I*a*tan(f*x+e))^(3-n),x, algorithm="maxi
ma")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/2} (a + b \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 617

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \sec(e + fx))^{5/2} (a + b \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*sec(f*x+e))^(5/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 631

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{7/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 672

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{5/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 673

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{3/2}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 674

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cos(c + dx)}}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 675

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cos(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 676

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{3/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 677

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{5/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 678

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{7/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*cos(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 679

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{9/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(e*cos(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 680

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{11/2} (a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*cos(d*x+c))^(11/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 681

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^m}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^m/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^m}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*cos(d*x+c))^m/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 701

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^4/(I+tan(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^3/(I+tan(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^2/(I+tan(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{i + \tan(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)/(I+tan(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^4/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^6/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)(a + ia \tan(e + fx))}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2}(a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{5/2} (a + ia \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)(a + ia \tan(e + fx))^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2}(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{5/2} (a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d \tan(e + fx)}(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2}(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{3/2}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c+dx)}{(a+ia \tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(9/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 225

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 226

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 227

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{3/2}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{10}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(10/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{8}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(8/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{3}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(5/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{3}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(7/3)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{14}{3}}(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(14/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{10}{3}}(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(10/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{8}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(8/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{3}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(5/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{3}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(7/3)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 247

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{\tan(c+dx)}}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima
")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{2}{3}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)}{(a + ia \tan(c + dx))^{4/3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m/(a+I*a*tan(d*x+c))^(4/3),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c + dx)}}{(a + ia \tan(c + dx))^{4/3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(4/3),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{a - ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a-I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1which is not of the expected type LIST`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int (1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1which is not of the expected type LIST`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(1+tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 1 which is not of the expected type LIST

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 408

Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 507

Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 514

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 515

Maxima [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 521

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 522

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{7/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 527

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 532

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 533

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 541

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 542

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 550

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 551

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 554

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(c + dx)}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 580

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(c + dx)}{\sqrt{-e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))/(-e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 581

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c + dx)} \sqrt{2 + 3 \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(2+3*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 655

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{-2+3\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(-2+3*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 656

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{2-3\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(2-3*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 657

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-2 - 3 \tan(c + dx)} \sqrt{\tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-2-3*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 658

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c + dx)} \sqrt{3 + 2 \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(3+2*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 659

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-2\tan(c+dx)}\sqrt{\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(3-2*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 660

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{-3+2\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(-3+2*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 661

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-3 - 2 \tan(c + dx)} \sqrt{\tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-3-2*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 662

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 735

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{a+ia \tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 736

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 737

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 738

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 739

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 740

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 741

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)(a+ia \tan(c+dx))^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 742

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 743

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 744

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia \tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 745

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 746

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 747

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 748

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 774

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{3/2}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 783

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 784

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 785

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 786

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 787

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \cot(e+fx))^n}{a+ia \tan(e+fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*cot(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \cot(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*cot(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 893

Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 894

Maxima [F(-2)]

Exception generated.

$$\int \frac{c - ic \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 895

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 900

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 901

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 902

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^2}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 903

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 909

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 910

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 911

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 912

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^3}{(a + ia \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^5,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 913

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 919

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 920

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 921

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 922

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^4}{(a + ia \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^5,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 923

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 924

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 925

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 926

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 927

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ictan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 928

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c - ictan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 929

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 930

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 931

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 932

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 933

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 934

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 935

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 936

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 937

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^6}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^6/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 938

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^5}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^5/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 939

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 940

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 941

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 942

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 943

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 944

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 945

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 946

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^6}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^6/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 947

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^5}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^5/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 948

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^4}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^4/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 949

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 950

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 951

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 952

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 953

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 954

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 955

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 996

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(7/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 998

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + i a \tan(e + f x))^{3/2} \sqrt{c - i c \tan(e + f x)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1021

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1022

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(7/2)/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1023

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1028

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1029

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1031

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(7/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1032

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1038

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1039

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1040

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{7/2} (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(7/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1042

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ictan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1047

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ictan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1048

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ic \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1049

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1055

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1056

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1057

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1058

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxi ma")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1063

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1064

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1068

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1069

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1070

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1074

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1075

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1076

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1080

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1081

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1082

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1086

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1087

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1088

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1092

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1093

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1094

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1098

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2(c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1099

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1100

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1104

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1105

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1116

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1117

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1118

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1122

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1123

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1124

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see `assume`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1127

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1128

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1129

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1130

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see `assume`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1133

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1134

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1135

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1136

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1137

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1138

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1141

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1142

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1143

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1148

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1149

Maxima [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*d-c>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1153

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1154

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1155

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1156

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1159

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1160

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d^2-2*c*d-c^2)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1161

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1165

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((-(2*c*d^4)/((c^2-d^2)^2)>0)', see `assume`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1168

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1171

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1177

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1179

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1231

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1232

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1233

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1234

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1237

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1238

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1240

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 + 4 \tan(e + fx)}}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1246

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 + 4 \tan(e + fx)}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1247

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3+4\tan(e+fx)}}{(a+b\tan(e+fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1248

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\tan(e+fx)}{\sqrt{c+d\tan(e+fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1252

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1253

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1254

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1258

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1259

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1260

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1264

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1265

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1266

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3+4\tan(e+fx)}(a+b\tan(e+fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1272

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3+4\tan(e+fx)}(a+b\tan(e+fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1273

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1278

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1279

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(3*b-4*a>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1280

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{\sqrt{a + b \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(1/2),x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1284

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?`
for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1285

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?`
for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1286

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?`
for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1290

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1291

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1292

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for more)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1297

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for more)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1298

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for more)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1301

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(e + fx)} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for more)`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1302

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?`
for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1307

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1308

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1310

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1314

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1315

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1316

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^{5/2}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a+b*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1319

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c(d \tan(e + fx))^p)^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*(d*tan(f*x+e))^p)^n/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1337

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c(d \tan(e + fx))^p)^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c*(d*tan(f*x+e))^p)^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1338

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm m="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{a+ia\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm m="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm m="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm m="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c + dx)}(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{3/2}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(9/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c + dx)}(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{3/2}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{7}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 188

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 211

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx)) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 361

Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 365

Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 371

Maxima [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 372

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - i \tan(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((1-I*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 523

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 524

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c + dx)}(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 525

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)(a + ia \tan(c + dx))}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c)),x, algorithm
m="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 526

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c)),x, algorithm
m="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 527

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 528

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 529

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 530

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```


input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 531

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 532

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 533

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 534

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c + dx)}(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 535

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)(a + ia \tan(c + dx))^3}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 536

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 537

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 538

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 539

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 558

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 559

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 560

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 561

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 562

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 563

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 564

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{3/2}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 565

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 567

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 568

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{3/2}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 569

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 570

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 671

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 672

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 673

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 674

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 675

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 683

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, al
gorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 684

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 685

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 686

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 687

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 688

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{c - ic \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorith="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 697

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 698

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 701

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 702

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^7} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^7,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 703

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^8,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 704

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e)),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 705

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^4}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e)),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 706

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^3}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e)),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 707

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^2}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e)),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 708

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 709

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{a + i a \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 710

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 711

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 712

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^3,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 713

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^4,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 714

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 715

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^5}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^5/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 716

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^4}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 717

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^3}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 718

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 719

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 720

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 721

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 722

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ictan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 723

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ictan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 724

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ictan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 725

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ictan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 726

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^n}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 727

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^5}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^5/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 728

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^4}{(a + i a \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^4/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 729

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^3}{(a + i a \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 730

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 731

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i \tan(e + fx))}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 732

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 733

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 734

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ictan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 735

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ictan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 736

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ictan(e + fx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 737

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ictan(e + fx))^5} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^5,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 738

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^6} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^6,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 739

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{\sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 834

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{\sqrt{a + ia \tan(e + fx)}(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(1/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 835

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 837

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i \tan(e + fx)}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 839

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{3/2} \sqrt{c - i \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 840

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{3/2} (c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(3/2)/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 842

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ictan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 843

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i \tan(e + fx)}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 847

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{5/2} \sqrt{c - i \tan(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 848

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^{5/2} (c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^(5/2)/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 849

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - ictan(e + fx))^n (-i(2 + n) + (-2 + n) \tan(e + fx))}{(-i + \tan(e + fx))^2} dx$$

= Exception raised: RuntimeError

input

```
integrate((c-I*c*tan(f*x+e))^n*(-I*(2+n)+(-2+n)*tan(f*x+e))/(-I+tan(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 853

Maxima [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c + d \tan(e + fx))}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*tan(f*x+e))*(c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 854

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx$$

= Exception raised: ValueError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx$$

= Exception raised: ValueError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: ValueError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(
f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+
e))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a*d-b*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^{9/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^(9/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assume?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(((2*b*d+2*a*c)^2>0)', see `assum
e?` for mo
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{(a + b \tan^2(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)^5/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)^3/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(f*x+e)/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^3/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(e + fx)}{(a + b \tan^2(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(f*x+e)^5/(a+b*tan(f*x+e)^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \cot(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^3/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^2/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^5(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^5/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^3/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^4/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 353

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(f*x+e)^2/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 354

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 355

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(x)/(a+b*tan(x)^4)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 404

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(x)/(a+b*tan(x)^4)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 407

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^m}{(a + b\sqrt{c \tan(e + fx)})^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*tan(f*x+e))^m/(a+b*(c*tan(f*x+e))^(1/2))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 411

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a + b \tan^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^5/(a+b*tan(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^7/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \tan^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*tan(d*x+c)^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c-b-a)*(c+b-a)>0)', see `assume?` for mor`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \cot(d + ex) \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(e*x+d)*(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((-16*a*(a/4-c/4))>0)', see `assume?` for m`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{\sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(e*x+d)/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d + ex)}{(a + b \tan(d + ex) + c \tan^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(e*x+d)^3/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(d + ex)}{(a + b \tan(d + ex) + c \tan^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(tan(e*x+d)^2/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{(a + b \tan(d + ex) + c \tan^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(tan(e*x+d)/(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^7(d + ex)}{(a + b \tan^2(d + ex) + c \tan^4(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(e*x+d)^7/(a+b*tan(e*x+d)^2+c*tan(e*x+d)^4)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d + ex)}{(a + b \tan^2(d + ex) + c \tan^4(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cot(e*x+d)/(a+b*tan(e*x+d)^2+c*tan(e*x+d)^4)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^3/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + ia \tan(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*tan(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^3/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*tan(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^3/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*tan(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (a + b \tan(c + d\sqrt{x}))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a+b*tan(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/223_4.3.11

Test file number 223

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^4/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/225_4.4.1.2

Test file number 225

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^3/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/225_4.4.1.2

Test file number 225

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^2/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/225_4.4.1.2

Test file number 225

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/225_4.4.1.2

Test file number 225

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(x)^4/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/226_4.4.1.3

Test file number 226

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(x)^3/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/226_4.4.1.3

Test file number 226

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(x)^2/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/226_4.4.1.3

Test file number 226

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x)}{i + \cot(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(x)/(I+cot(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/226_4.4.1.3

Test file number 226

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)}(a + a \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \cot(c + dx)}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^2}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^2/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \cot(c + dx))^3}{(e \cot(c + dx))^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*cot(d*x+c))^3/(e*cot(d*x+c))^(9/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{a + a \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)(a + a \cot(c + dx))}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + a \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2}(a + a \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2} (a + a \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(5/2)/(a+a*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)}(a + b \cot(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot(c + dx)}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + b \cot(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^2}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^2/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + b \cot(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot(c + dx))^3}{(e \cot(c + dx))^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c))^3/(e*cot(d*x+c))^(9/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{a + b \cot(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)(a + b \cot(c + dx))}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + b \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{5/2} (a + b \cot(c + dx))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{7/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(7/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2} (a + b \cot(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{9/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(9/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{7/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(7/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{5/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e \cot(c + dx))^{3/2}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cot(c + dx)}}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cot(c + dx)}(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(1/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cot(c + dx))^{3/2}(a + b \cot(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*cot(d*x+c))^(3/2)/(a+b*cot(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int (a + b \cot(e + fx))^m (d \tan(e + fx))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*cot(f*x+e))^m*(d*tan(f*x+e))^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \cot^3(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^3*(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \cot(x) \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)*(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \cot^3(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^3*(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \cot(x) (a + b \cot^2(x))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)*(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(d*x+c)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \cot^2(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cot(d*x+c)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cot(d*x+c)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cot(d*x+c)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cot^2(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cot(d*x+c)^2)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{\sqrt{a + b \cot^2(x)}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^3/(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{\sqrt{a + b \cot^2(x)}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)/(a+b*cot(x)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^3/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^2/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \cot^2(x))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)/(a+b*cot(x)^2)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^3/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^2/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \cot^2(x))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)/(a+b*cot(x)^2)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d + ex)}{\sqrt{a + b \cot(d + ex) + c \cot^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot(d + ex) + c \cot^2(d + ex)} \tan(d + ex) dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2)*tan(e*x+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c-b-a)*(c+b-a)>0)', see `assume?` for mor`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^7(d+ex)}{(a+b\cot^2(d+ex)+c\cot^4(d+ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(e*x+d)^7/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{(a + b \cot^2(d + ex) + c \cot^4(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(e*x+d)/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d*x+c)^3/(a+I*a*cot(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*cot(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + ia \cot(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*cot(f*x+e)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^3/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \cot(e + fx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*cot(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^3/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + ia \cot(e + fx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(a+I*a*cot(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/230_4.4.10

Test file number 230

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(c+dx)(a+a\sec(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 427

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 490

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 498

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 499

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 500

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 507

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 508

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 509

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 510

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 511

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 512

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 513

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^6/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 514

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 515

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 516

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 517

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 518

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 519

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 520

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 521

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 522

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 627

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^6/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 217

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^6/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^2/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(d*x+c)^4/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))(e \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))(e \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx)) \sqrt{e \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))*(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*tan(d*x+c))^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 (e \tan(c + dx))^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 (e \tan(c + dx))^{3/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 \sqrt{e \tan(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2*(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{\sqrt{e \tan(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \tan(c + dx))^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*tan(d*x+c))^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)*(a+a*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+a*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 234

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)}(a + a \sec(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+a*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 235

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 236

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + a \sec(c + dx)}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{5/2} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(5/2)*(a+a*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int (e \cot(c + dx))^{3/2} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(3/2)*(a+a*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{e \cot(c + dx)} (a + a \sec(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*cot(d*x+c))^(1/2)*(a+a*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 240

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{\sqrt{e \cot(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*cot(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^2}{(e \cot(c + dx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(d*x+c))^2/(e*cot(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^6/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 291

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^6/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 304

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 305

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 306

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^2/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(d*x+c)^4/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 308

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{(c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sec(e + fx)}}{\sqrt{c + d \sec(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sec(e + fx)}}{(c + d \sec(e + fx))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \sec(e + fx)}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: ValueError}$$

input `integrate((c+d*sec(f*x+e))^(1/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-c>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(e + fx)}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 193

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^2}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^2/(c+d*sec(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(e + fx))^3}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(f*x+e))^3/(c+d*sec(f*x+e))^5,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 191

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 192

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 197

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 198

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^2}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^3}{(c + d \sec(e + fx))^5} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2 (c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^2,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 223

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^2 (c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^2/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 232

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + a \sec(e + fx))^3 (c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^3/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 233

Maxima [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{3/2} \sqrt{a + a \sec(e + fx)}}{c + d \sec(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*sec(f*x+e))^(3/2)*(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x,
algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imagi
nary; found %i
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{c + d \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b \sec(e + fx))}{(c + d \sec(e + fx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + b\sec(e + fx))}{(c + d\sec(e + fx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^4,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^4}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(c+d*sec(f*x+e))^4/(a+b*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^3}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(c+d*sec(f*x+e))^3/(a+b*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 253

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^2}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(c+d*sec(f*x+e))^2/(a+b*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 254

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))}{a + b\sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(c+d*sec(f*x+e))/(a+b*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))(c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+b*sec(f*x+e))/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))(c + d \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+b*sec(f*x+e))/(c+d*sec(f*x+e))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^5}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(c+d*sec(f*x+e))^5/(a+b*sec(f*x+e))^2,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^4}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(c+d*sec(f*x+e))^4/(a+b*sec(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^3}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)*(c+d*sec(f*x+e))^3/(a+b*sec(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))^2}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(c+d*sec(f*x+e))^2/(a+b*sec(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(c + d\sec(e + fx))}{(a + b\sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(f*x+e)*(c+d*sec(f*x+e))/(a+b*sec(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{(a + b \sec(e + fx))^2 (c + d \sec(e + fx))} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(f*x+e)/(a+b*sec(f*x+e))^2/(c+d*sec(f*x+e)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{3}{2}}(c + dx) (a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c))/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*sec(d*x+c))/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 311

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 313

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxim
a")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 314

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 315

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 316

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 317

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 318

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \sec(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 320

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 321

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 322

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx))}{(a+b\sec(c+dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 323

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 324

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 325

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^5*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 331

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx))}{(a+b\sec(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 333

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 334

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 335

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^5*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^4*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 338

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 339

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 340

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 341

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 342

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \sec(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*sec(d*x+c))/(a+b*sec(d*x+c))^4,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 343

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*B/a+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 344

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{aB}{b} + B \sec(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B/b+B*sec(d*x+c))/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(c + dx)}{(b + a \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(d*x+c))/(b+a*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c))/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 434

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)(A+B\sec(c+dx))}{(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 548

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+C\sec^2(c+dx)}{\sec^{\frac{3}{2}}(c+dx)(a+a\sec(c+dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 248

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 576

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 618

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 676

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 677

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 678

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 679

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 680

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 681

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` for more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 682

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 683

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 684

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c+dx)(A+C\sec^2(c+dx))}{(a+b\sec(c+dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 685

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 686

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 687

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 688

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 689

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 690

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 692

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 693

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 694

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 695

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 696

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 697

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 698

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+C\sec^2(c+dx))}{(a+b\sec(c+dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 701

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+C\sec^2(c+dx)}{(a+b\sec(c+dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 702

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 703

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 704

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 705

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 706

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 707

Maxima [F(-2)]

Exception generated.

$$\int \frac{a^2 - b^2 \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2-b^2*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 708

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 795

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 796

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 797

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 798

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 799

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 800

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 801

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 802

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 803

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 804

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 805

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 806

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 807

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 808

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 809

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 810

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 811

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 812

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 813

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c+dx)(A+B\sec(c+dx)+C\sec^2(c+dx))}{a+b\sec(c+dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 900

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 901

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 902

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 903

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 904

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 905

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 906

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 907

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 908

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 909

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 910

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 911

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 912

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x,
algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 913

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 914

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2, x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 915

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3, x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 916

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 917

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 918

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx)+C\sec^2(c+dx))}{(a+b\sec(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 919

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\sec(c+dx)+C\sec^2(c+dx)}{(a+b\sec(c+dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm=
"maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 920

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 921

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 922

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^4*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,
x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 923

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^3*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 924

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 925

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c+dx)(A+B\sec(c+dx)+C\sec^2(c+dx))}{(a+b\sec(c+dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(sec(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 926

Maxima [F(-2)]

Exception generated.

$$\int \frac{A+B\sec(c+dx)+C\sec^2(c+dx)}{(a+b\sec(c+dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm=
"maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 927

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cos(d*x+c)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x,
algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 928

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4, x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 929

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{a + b \sec(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 930

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 931

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 932

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^4,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 933

Maxima [F(-2)]

Exception generated.

$$\int \frac{abB - a^2C + b^2B \sec(c + dx) + b^2C \sec^2(c + dx)}{(a + b \sec(c + dx))^5} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*a*b-C*a^2+b^2*B*sec(d*x+c)+b^2*C*sec(d*x+c)^2)/(a+b*sec(d*x+c))^5,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 934

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{3}{2}}(c + dx)(a + b \sec(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(3/2)/(a+b*sec(d*x+c)
)^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1030

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)(A + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, al
gorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1161

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, al
gorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1172

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c)
)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1280

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^3/(a+b*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2/(a+b*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \sec(e + fx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)/(a+b*sec(f*x+e)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^3/(a+b*sec(f*x+e))^2,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*x+c)^2/(a+b*sec(f*x+e))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \sec(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(a+b*sec(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/241_4.5.4.10

Test file number 241

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sec(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sec(d*x^2+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \sec(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \sec(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*sec(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \sec(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*sec(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/242_4.5.4.11

Test file number 242

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^5(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^5/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^3(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^3/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \csc(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csc(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^3/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csc(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csc(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csc(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/245_4.6.1.3

Test file number 245

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/245_4.6.1.3

Test file number 245

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/245_4.6.1.3

Test file number 245

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/245_4.6.1.3

Test file number 245

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/246_4.6.1.4

Test file number 246

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tan(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/246_4.6.1.4

Test file number 246

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^2/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/246_4.6.1.4

Test file number 246

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^4(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^4/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/246_4.6.1.4

Test file number 246

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^6(x)}{a + b \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cot(x)^6/(a+b*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/246_4.6.1.4

Test file number 246

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \csc(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*csc(d*x^2+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \csc(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \csc(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*csc(c+d*x^(1/2))),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \csc(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*csc(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/250_4.6.11

Test file number 250

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} \sqrt{f \sin(d+ex)} \sqrt{g \sin(d+ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(F^(c*(b*x+a))*(f*sin(e*x+d))^(1/2)*(g*sin(e*x+d))^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((2*i*e)/(log(F)*b*c>0)', see `assume?` fo

input file name test_cases/rubi_tests/4_Trig_functions/4.7_Trig_exponential/252_4.7.2

Test file number 252

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} \sqrt{f \cos(d+ex)} \sqrt{g \cos(d+ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(F^(c*(b*x+a))*(f*cos(e*x+d))^(1/2)*(g*cos(e*x+d))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((2*i*e)/(log(F)*b*c>0)', see `assume?` fo`

input file name test_cases/rubi_tests/4_Trig_functions/4.7_Trig_exponential/252_4.7.2

Test file number 252

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+ibx)}}{g \cos(d+bx) + f \sin(d+bx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(exp(5/3*a+5/3*I*b*x)/(g*cos(b*x+d)+f*sin(b*x+d)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/4_Trig_functions/4.7_Trig_exponential/253_4.7.3

Test file number 253

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+ibx)}}{(g \cos(d+bx) + f \sin(d+bx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(exp(5/3*a+5/3*I*b*x)/(g*cos(b*x+d)+f*sin(b*x+d))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/4_Trig_functions/4.7_Trig_exponential/253_4.7.3

Test file number 253

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+ibx)}}{(g \cos(d+bx) + f \sin(d+bx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(exp(5/3*a+5/3*I*b*x)/(g*cos(b*x+d)+f*sin(b*x+d))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/4_Trig_functions/4.7_Trig_exponential/253_4.7.3

Test file number 253

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \cos(x)}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*cos(x)/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \cos(x)}{(a + b \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*cos(x)/(a+b*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sin(x)}{(a + b \cos(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*sin(x)/(a+b*cos(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sin(x)}{(a + b \cos(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*sin(x)/(a+b*cos(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \sin(x))}{(a + b \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b+a*sin(x))/(a+b*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \cos(x))}{(a + b \cos(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b+a*cos(x))/(a+b*cos(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + \frac{c^2}{d^2} + \sin^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((-1+c^2/d^2+sin(x)^2)/(c+d*cos(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(x)^2)/(c+d*cos(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + \frac{c^2}{d^2} + \cos^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((-1+c^2/d^2+cos(x)^2)/(c+d*sin(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cos(x)^2)/(c+d*sin(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^2(x)}{c + d \cos(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(x)^2)/(c+d*cos(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^2(x)}{c + d \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*csc(x)^2)/(c+d*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*d^2-4*c^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec(x) + b \tan(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*sec(x)+b*tan(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 242

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec(x) + b \tan(x))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*sec(x)+b*tan(x))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot(x) + b \csc(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*cot(x)+b*csc(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot(x) + b \csc(x))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*cot(x)+b*csc(x))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 264

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 289

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 328

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(d + ex) + c \sin(d + ex))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(e*x+d)+c*sin(e*x+d))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{7/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 357

Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 358

Maxima [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 359

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 360

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 361

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 362

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 363

Maxima [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 364

Maxima [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 365

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((- (b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 366

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(- (b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 367

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-(b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm m="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 368

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-(b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm m="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 370

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 372

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(x)}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 373

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x)}{a + c \sec(x) + b \tan(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(x)^2/(a+c*sec(x)+b*tan(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 374

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 385

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc(x)}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x)}{a + b \cot(x) + c \csc(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csc(x)^2/(a+b*cot(x)+c*csc(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{(b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 445

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{\sqrt{b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sin(d + ex)}{(b^2 + 2ab \sin(d + ex) + a^2 \sin^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sin(e*x+d))/(b^2+2*a*b*sin(e*x+d)+a^2*sin(e*x+d)^2)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cos(x)}{b^2 + 2ab \cos(x) + a^2 \cos^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cos(x))/(b^2+2*a*b*cos(x)+a^2*cos(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 463

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{(b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2)^2,x, al
gorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{\sqrt{b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2)^(1/2),x
, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec(d + ex)}{(b^2 + 2ab \sec(d + ex) + a^2 \sec^2(d + ex))^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sec(e*x+d))/(b^2+2*a*b*sec(e*x+d)+a^2*sec(e*x+d)^2)^(3/2),x
, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x) - i \sin(x)}{\cos(x) + i \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((cos(x)-I*sin(x))/(cos(x)+I*sin(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(x) + i \sin(x)}{\cos(x) - i \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((cos(x)+I*sin(x))/(cos(x)-I*sin(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 479

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 481

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` for more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 490

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cos(x) + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((B*cos(x)+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) + c \sin(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{(a + b \cos(x) + c \sin(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+c*sin(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) + ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)+I*b*sin(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(x) + C \sin(x)}{a + b \cos(x) - ib \sin(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*cos(x)+C*sin(x))/(a+b*cos(x)-I*b*sin(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{b^2 + c^2 + ab \cos(x) + ac \sin(x)}{(a + b \cos(x) + c \sin(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((b^2+c^2+a*b*cos(x)+a*c*sin(x))/(a+b*cos(x)+c*sin(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 498

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{a + c \sin(d + ex)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see `assume?` f or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 506

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^3,x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 507

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(d + ex) + C \sin(d + ex)}{(a + c \sin(d + ex))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cos(e*x+d)+C*sin(e*x+d))/(a+c*sin(e*x+d))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 508

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cos(c + dx) \sin(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c)*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 513

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx) \sin(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c)*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 514

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cos(c + dx) \sin(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cos(d*x+c)*sin(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b^2-4*a^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 515

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^6(ax)}{x^4(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(a*x)^6/x^4/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 528

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^5(ax)}{x^3(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(a*x)^5/x^3/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 529

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^4(ax)}{x^2(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(a*x)^4/x^2/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 530

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^3(ax)}{x(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(a*x)^3/x/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 531

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \csc(ax)}{(ax \cos(ax) - \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*csc(a*x)/(a*x*cos(a*x)-sin(a*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 535

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^6(ax)}{x^4(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(a*x)^6/x^4/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 537

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(ax)}{x^3(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(a*x)^5/x^3/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 538

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(ax)}{x^2(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(a*x)^4/x^2/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 539

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(ax)}{x(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(a*x)^3/x/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 540

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sec(ax)}{(\cos(ax) + ax \sin(ax))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*sec(a*x)/(cos(a*x)+a*x*sin(a*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 544

Maxima [F(-2)]

Exception generated.

$$\int \frac{\csc^2(x) \sec(x)}{\sqrt{\sin(2x)}(-2 + \tan(x))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(x)^2*sec(x)/sin(2*x)^(1/2)/(-2+tan(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 577

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \sin(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*sin(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 789

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \sin(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)^2/(a+b*sin(2*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 790

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{a + b \cos(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sin(x)^2/(a+b*cos(2*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(x)}{a + b \cos(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(x)^2/(a+b*cos(2*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{a \cos(c + dx) + ia \sin(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)/(a*cos(d*x+c)+I*a*sin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^2/(a*cos(d*x+c)+I*a*sin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^5(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^5/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^4/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + ia \sin(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^3/(a*cos(d*x+c)+I*a*sin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^3/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 257

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)^2/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 258

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cos(d*x+c)/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 259

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 260

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 261

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^2/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 262

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a \sin(c + dx) + b \tan(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sec(d*x+c)^3/(a*sin(d*x+c)+b*tan(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 263

Maxima [F(-2)]

Exception generated.

$$\int \sin^2(a + bx) \tan^2(c + bx) dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(b*x+a)^2*tan(b*x+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \cot^2(c + bx) \sin^2(a + bx) dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(b*x+c)^2*sin(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 241

Maxima [F(-2)]

Exception generated.

$$\int x^3 \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int x^2 \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int x \cos^2(x) \cot^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*cos(x)^2*cot(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tan^2(a + i \log(x))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(a+I*log(x))^2/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^2(a + i \log(x))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(a+I*log(x))^2/x^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(3x) + \sin(2x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(3*x)+sin(2*x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 2

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(3x) + \sin(2x))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(3*x)+sin(2*x))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 3

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(3x) + \sin(2x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(3*x)+sin(2*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(3x) + \sin(2x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(3*x)+sin(2*x))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(3x) + \sin(2x))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(3*x)+sin(2*x))^6,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sin(x) + \sin(5x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(sin(x)+sin(5*x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sin(x) + \sin(5x))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(sin(x)+sin(5*x))^5,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sin(x) + \sin(5x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(sin(x)+sin(5*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sin(x) + \sin(5x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(sin(x)+sin(5*x))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sin(x) + \sin(5x))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(sin(x)+sin(5*x))^6,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(x) + \cos(5x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(x)+cos(5*x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(x) + \cos(5x))^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(x)+cos(5*x))^5,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(x) + \cos(5x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(x)+cos(5*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(x) + \cos(5x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(x)+cos(5*x))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(x) + \cos(5x))^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(cos(x)+cos(5*x))^6,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)^2/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^2}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)^2/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^3}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arcsin(b*x+a)^3/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{11/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(11/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + b \arcsin(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arcsin(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{(ce + dex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))/(d*e*x+c*e)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{(ce + dex)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^2/(d*e*x+c*e)^(9/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + b \arcsin(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsin(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(a + bx)^n}{\sqrt{1 - a^2 - 2abx - b^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(b*x+a)^n/(-b^2*x^2-2*a*b*x-a^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^7} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^7,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int x^4(a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsin(d*x^2+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 268

Maxima [F(-2)]

Exception generated.

$$\int x^2(a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsin(d*x^2+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(c + dx^2)) dx = \text{Exception raised: ValueError}$$

input `integrate(a+b*arcsin(d*x^2+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 272

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx^2)}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(d*x^2+c))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 276

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 280

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 282

Maxima [F(-2)]

Exception generated.

$$\int \arcsin(1+x^2)^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x^2+1)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arcsin(1 + dx^2))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arcsin(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 294

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arcsin(1 + dx^2)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arcsin(d*x^2+1))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 296

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(a+b*arcsin(d*x^2+1))^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arcsin(1 + dx^2))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/(a+b*arcsin(d*x^2+1))^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(\sqrt{1+bx^2})^n}{\sqrt{1+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin((b*x^2+1)^(1/2))^n/(b*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 346

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1+bx^2} \arcsin(\sqrt{1+bx^2})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^2+1)^(1/2)/arcsin((b*x^2+1)^(1/2)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int x^4 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^6/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arcsin(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int x \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int (bx)^{3/2} \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^(3/2)*arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{bx} \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^(1/2)*arcsin(a*x)^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{\sqrt{bx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/(b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{(bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/(b*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arcsin(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arcsin(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{3/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(3/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^{5/2}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^(5/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arcsin\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arcsin\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(3/2)*arcsin(x/a)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arcsin\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(1/2)*arcsin(x/a)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(x/a)^(3/2)/(a^2-x^2)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arcsin(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arcsin(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arcsin(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arcsin(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found %i`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 189

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arcsin(cx)}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(e*x^2+d)/(a+b*arcsin(c*x))^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 194

Maxima [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arcsin(x)}} + \frac{x \arcsin(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(-3/8*x/(-x^2+1)/arcsin(x)^(1/2)+x*arcsin(x)^(3/2)/(-x^2+1)^2,x,
algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 399

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arcsin(x)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arcsin(x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 416

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 417

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 418

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arcsin(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 419

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/x/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 421

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^n}{x^2\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^n/x^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 422

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 463

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d+cx} \sqrt{e-cx} (a+b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{d+cx} \sqrt{e-cx} (a+b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate(x*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arcsin(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/x^2,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int x^2(d+cdx)^{3/2}(e-cex)^{3/2}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int x(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/x,x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 490

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 491

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 492

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 493

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/x/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 495

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2\sqrt{d + cx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/x^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d + cx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 500

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2} \sqrt{e - cex} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2} \sqrt{e - cex} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cx}\sqrt{e-cx}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arcsin(cx))^2}{\sqrt{d + cdx}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(1/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + cdx}(e - cex)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arcsin(cx))^2}{\sqrt{d + cdx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(3/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2} (e - cex)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2} (e - cex)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cx}(e-cex)^{5/2}(a+b\arcsin(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e-cex)^{5/2}(a+b\arcsin(cx))^2}{\sqrt{d+cx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arcsin(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(5/2)*(a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{3/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{5/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cdx}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(3/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + cdx)^{5/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(3/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + cx}(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(5/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex} \sqrt{f+gx} (a+b \arcsin(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{f+gx} (a+b \arcsin(cx))}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((g*x+f)^(1/2)*(a+b*arcsin(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` for more details) or more de

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{d + ex}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))/(e*x+d)^(1/2)/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^{3/2}\sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))/(e*x+d)^(3/2)/(g*x+f)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^{5/2} \sqrt{f + gx}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^(5/2)/(g*x+f)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^{3/2} (f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^(3/2)/(g*x+f)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^{5/2}(f + gx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsin(c*x))/(e*x+d)^(5/2)/(g*x+f)^(3/2),x, algorithm="maxi
ma")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e*(d*g-e*f)>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^{5/2}(f + gx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^(5/2)/(g*x+f)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d*g-e*f>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2}(a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + b \arcsin(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/(g*x+f)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 x^2)^{3/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: ValueError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2) (a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 165

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)(a + b \arcsin(cx))^2}{(g + hx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((f*x^2+e*x+d)*(a+b*arcsin(c*x))^2/(h*x+g)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(h-c*g>0)', see `assume ?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*h*x^2+2*d*h*x+e*f)*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm
="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)^2(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*h*x^2+2*d*h*x+e*f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorit
hm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume
?` for mor
```


input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arccos(b*x+a)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arccos(b*x+a)/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(arccos(b*x+a)/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(b*x+a)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \arccos(a + bx)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(b*x+a)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(a + bx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(a + bx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(b*x+a)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(a + bx)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(b*x+a)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int (a + b \arccos(1 + dx^2))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \arccos(1 + dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(d*x^2+1))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \arccos(1 + dx^2)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \arccos(1 + dx^2))^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*arccos(d*x^2+1))^(7/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-_SAGE_VAR_d*_SAGE_VAR_x^2)-2)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(\sqrt{1+bx^2})^n}{\sqrt{1+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos((b*x^2+1)^(1/2))^n/(b*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{1+bx^2} \arccos(\sqrt{1+bx^2})} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^2+1)^(1/2)/arccos((b*x^2+1)^(1/2)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(-_SAGE_VAR_b)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int x^4 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 78

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int x^4 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 87

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 89

Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(5/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^6/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 104

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arccos(a*x)^(7/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(bx)^m}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int (bx)^m \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^m*arccos(a*x)^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int x^3 \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccos(a*x)^n,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int x^2 \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccos(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int x \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccos(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int (bx)^{3/2} \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^(3/2)*arccos(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{bx} \arccos(ax)^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x)^(1/2)*arccos(a*x)^n,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{\sqrt{bx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/(b*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{(bx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/(b*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arccos(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \left(-\frac{3x}{8(1-x^2)\sqrt{\arccos(x)}} + \frac{x \arccos(x)^{3/2}}{(1-x^2)^2} \right) dx = \text{Exception raised: RuntimeError}$$

input `integrate(-3/8*x/(-x^2+1)/arccos(x)^(1/2)+x*arccos(x)^(3/2)/(-x^2+1)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 443

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 444

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arccos(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 445

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 446

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 447

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 448

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 450

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{3/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 453

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(5/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^{5/2}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^(5/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \sqrt{\arccos\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(3/2)*arccos(x/a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 457

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \sqrt{\arccos\left(\frac{x}{a}\right)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(1/2)*arccos(x/a)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos\left(\frac{x}{a}\right)}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(x/a)^(1/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(x/a)^(1/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 460

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arccos\left(\frac{x}{a}\right)}}{(a^2 - x^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(x/a)^(1/2)/(a^2-x^2)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 461

Maxima [F(-2)]

Exception generated.

$$\int (a^2 - x^2)^{3/2} \arccos\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(3/2)*arccos(x/a)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 462

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a^2 - x^2} \arccos\left(\frac{x}{a}\right)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2-x^2)^(1/2)*arccos(x/a)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 463

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos\left(\frac{x}{a}\right)^{3/2}}{\sqrt{a^2 - x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(x/a)^(3/2)/(a^2-x^2)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 464

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos\left(\frac{x}{a}\right)^{3/2}}{(a^2 - x^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(x/a)^(3/2)/(a^2-x^2)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 465

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{1-x^2}\sqrt{\arccos(x)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-x^2+1)^(1/2)/arccos(x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 467

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 469

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 471

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \sqrt{\arccos(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{5/2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 475

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2 cx^2} \arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2 cx^2)^{3/2} \arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 477

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arccos(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c - a^2cx^2)^{3/2}}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 479

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - a^2cx^2}}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c - a^2cx^2} \arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(1/2)/arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 481

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{3/2} \arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(3/2)/arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c - a^2cx^2)^{5/2} \arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-a^2*c*x^2+c)^(5/2)/arccos(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 483

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arccos(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arccos(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 499

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arccos(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccos(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 500

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arccos(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccos(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 501

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arccos(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccos(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/x/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^n}{x^2\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^n/x^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2} \sqrt{e - cex} (a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 542

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2} \sqrt{e - cex} (a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 543

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}\sqrt{e-cex}(a+b\arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 544

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e-cex}(a+b\arccos(cx))^2}{\sqrt{d+cdx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(1/2),x, algorithm
m="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 545

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arccos(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(3/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 546

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e - cex}(a + b \arccos(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 547

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2}(e - cex)^{3/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 548

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 549

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + cdx}(e - cex)^{3/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 550

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arccos(cx))^2}{\sqrt{d + cdx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(1/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 551

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arccos(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 552

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{3/2}(a + b \arccos(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 553

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{5/2}(e - cex)^{5/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 554

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{5/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 555

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cx}(e-cex)^{5/2}(a+b\arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 556

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arccos(cx))^2}{\sqrt{d + cdx}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(1/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 557

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arccos(cx))^2}{(d + cdx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 558

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e - cex)^{5/2}(a + b \arccos(cx))^2}{(d + cdx)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c*e*x+e)^(5/2)*(a+b*arccos(c*x))^2/(c*d*x+d)^(5/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 559

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arccos(cx))^2}{\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 560

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arccos(cx))^2}{\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(3/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(1/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 561

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}(a+b\arccos(cx))^2}{\sqrt{e-cex}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(1/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 562

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a+b\arccos(cx))^2}{\sqrt{d+cdx}\sqrt{e-cex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 563

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + cdx)^{3/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 564

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + cdx)^{5/2} \sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(1/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 565

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arccos(cx))^2}{(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(3/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arccos(cx))^2}{(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 567

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + cdx}(a + b \arccos(cx))^2}{(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(3/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 568

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + cdx}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(3/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 569

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + cdx)^{5/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(5/2)/(-c*e*x+e)^(3/2),x, algorithm
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 571

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{5/2}(a + b \arccos(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(5/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(5/2),x, algorith
m="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 572

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(a + b \arccos(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 573

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + cdx}(a + b \arccos(cx))^2}{(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(a+b*arccos(c*x))^2/(-c*e*x+e)^(5/2),x, algorithm m="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 574

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + cdx}(e - cex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 575

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + cdx} \sqrt{e - cex} (a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 578

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+cx}\sqrt{e-cx}(a+b\arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 579

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+cdx}\sqrt{e-cex}(a+b\arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 580

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arccos(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 581

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+cdx}\sqrt{e-cex}(a+b\arccos(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((c*d*x+d)^(1/2)*(-c*e*x+e)^(1/2)*(a+b*arccos(c*x))^2/x^2,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 582

Maxima [F(-2)]

Exception generated.

$$\int x^2(d+cdx)^{3/2}(e-cex)^{3/2}(a+b\arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 583

Maxima [F(-2)]

Exception generated.

$$\int x(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 584

Maxima [F(-2)]

Exception generated.

$$\int (d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 585

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arccos(cx))^2}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 586

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(e - cex)^{3/2}(a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((c*d*x+d)^(3/2)*(-c*e*x+e)^(3/2)*(a+b*arccos(c*x))^2/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 587

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arccos(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 588

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 589

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 590

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x\sqrt{d + cdx}\sqrt{e - cex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/x/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 591

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2 \sqrt{d + cx} \sqrt{e - cx}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/x^2/(c*d*x+d)^(1/2)/(-c*e*x+e)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 592

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 (a + b \arccos(cx))^2}{(d + cx)^{3/2} (e - cx)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a+b*arccos(c*x))^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 593

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/x/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algori
thm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 596

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2(d + cdx)^{3/2}(e - cex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(c*d*x+d)^(3/2)/(-c*e*x+e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 597

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 626

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 628

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 630

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 632

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/x^4/(e*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 634

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 636

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 639

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 640

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 641

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 642

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arccos(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 648

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arccos(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 649

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 650

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arccos(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 651

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 652

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 653

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 665

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b \arccos(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 666

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 667

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 668

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \arccos(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccos(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 695

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2) \sqrt{a + b \arccos(cx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(e*x^2+d)/(a+b*arccos(c*x))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/(g*x+f)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="max
ima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(arctan(c+(1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (-1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(arctan(c+(-1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(-arctan(-c-(1-I*c)*cot(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c + (-1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(-arctan(-c-(-1-I*c)*cot(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{cx}{\sqrt{a-c^2x^2}}\right)^m}{\sqrt{d-\frac{c^2dx^2}{a}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(c*x/(-c^2*x^2+a)^(1/2))^m/(d-c^2*d*x^2/a)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^m}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^m/(b*x^2+a)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^2}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^2/(b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)}{\sqrt{a+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))/(b*x^2+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^2+a)^(1/2)/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^2+a)^(1/2)/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx^2} \arctan\left(\frac{ex}{\sqrt{-\frac{ae^2}{b}-e^2x^2}}\right)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(b*x^2+a)^(1/2)/arctan(e*x/(-a*e^2/b-e^2*x^2)^(1/2))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt((-SAGE_VAR_b*SAGE_VAR_x^2)-SAGE_VAR_a)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(c(a+bx)) \log(d(a+bx))}{a+bx} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(c*(b*x+a))*log(d*(b*x+a))/(b*x+a),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int x \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/277_5.3.2

Test file number 277

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx^2))^2}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x^2))^2/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/278_5.3.3

Test file number 278

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))/(d+I*c*d*x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2(d + icdx)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))/x^2/(d+I*c*d*x)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))^2/(d+I*c*d*x)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^3(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))^2/x^3/(d+I*c*d*x)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2(d + icdx)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))^2/x^2/(d+I*c*d*x)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^3}{(d + icdx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arctan(c*x))^3/(d+I*c*d*x)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 685

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 686

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 687

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 688

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 689

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 690

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 692

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 693

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 694

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 695

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(1/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 696

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 697

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 698

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{c + a^2 cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{c+a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{c+a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 701

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 702

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 703

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3 (c + a^2 cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 704

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4 (c + a^2 cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 705

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 706

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 707

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 708

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 709

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 710

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 711

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 712

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 713

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 714

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 715

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 716

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 717

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 718

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 719

Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 720

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 721

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)}dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 722

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2}\sqrt{\arctan(ax)}dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 723

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 724

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 725

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 726

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 727

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 728

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 729

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 730

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 731

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 732

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 733

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 734

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{\arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 735

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 736

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 737

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 738

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 739

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 740

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 741

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 742

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 743

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 744

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 745

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 746

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x^2(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 747

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 748

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 750

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{\arctan(ax)}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 751

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 752

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 753

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\arctan(ax)}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(1/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 754

Maxima [F(-2)]

Exception generated.

$$\int x^m(c+a^2cx^2)\arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 755

Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 756

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 757

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 758

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2) \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 759

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 760

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 761

Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 762

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 763

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 764

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 765

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 766

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 767

Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 768

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 769

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 770

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 771

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{3/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(3/2)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 772

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 773

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 774

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 777

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 778

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 779

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 781

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 782

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 783

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 784

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 785

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 786

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 787

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 788

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 789

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 790

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 791

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 792

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 793

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 794

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 795

Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 796

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 797

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 798

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 799

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 800

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 801

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 802

Maxima [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 803

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 804

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 805

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 806

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 807

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 808

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 809

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 810

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 811

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 812

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 813

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 814

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 815

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 816

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 817

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 818

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^4\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 819

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 820

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 821

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 822

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 823

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 824

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 825

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 826

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 827

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 828

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 829

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 830

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 831

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 832

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 833

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 834

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{3/2}}{x^2(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(3/2)/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 835

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 836

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 837

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 838

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2) \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 839

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 840

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2) \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 841

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 842

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 843

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 844

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^2 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 845

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 846

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 847

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 848

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 849

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 850

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^3 \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 851

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 852

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3 \arctan(ax)^{5/2}}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3*arctan(a*x)^(5/2)/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 853

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 854

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 855

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 856

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 857

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 858

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 859

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 860

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 861

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4(c+a^2cx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 862

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c+a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 863

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 864

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 865

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 866

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 867

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 868

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c+a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 869

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 870

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 871

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 872

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 873

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 874

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 875

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 876

Maxima [F(-2)]

Exception generated.

$$\int x^m \sqrt{c+a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 877

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 878

Maxima [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 879

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 880

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 881

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 882

Maxima [F(-2)]

Exception generated.

$$\int x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 883

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 884

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 885

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 886

Maxima [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 887

Maxima [F(-2)]

Exception generated.

$$\int x^2(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 888

Maxima [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 889

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 890

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 891

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 892

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 893

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 894

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 895

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 896

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x\sqrt{c + a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 897

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 898

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^3\sqrt{c+a^2cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 899

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 900

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 901

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 902

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 903

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 904

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 905

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 906

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 907

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 908

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 909

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 910

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 911

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^{5/2}}{x(c+a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^(5/2)/x/(a^2*c*x^2+c)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 912

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 913

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 914

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 915

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 916

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 917

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 918

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 919

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^2}{x \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 920

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 921

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 922

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 923

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 924

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 925

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 926

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 927

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 928

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c+a^2cx^2)^2\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 929

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 930

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 931

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 932

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 933

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 934

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c+a^2cx^2)^3\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 935

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 936

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 937

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 938

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 939

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 940

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 941

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 942

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 943

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 944

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 945

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 946

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 947

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 948

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 949

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 950

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 951

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 952

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 953

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 954

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 955

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 956

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 957

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 958

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 959

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 960

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 961

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 962

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 963

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 964

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 965

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 966

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 967

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 968

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 969

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 970

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 971

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 972

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 973

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 974

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 975

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 976

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 977

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 978

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 979

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 980

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 981

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 982

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 983

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 984

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 985

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 986

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 987

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 988

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 989

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 990

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 991

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 992

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 993

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 994

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 995

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 996

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 998

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 999

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1000

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1001

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1002

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1003

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1004

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1005

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1006

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1007

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1008

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1009

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1010

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1011

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1012

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1013

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1014

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2 cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1015

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1016

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1017

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1018

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1019

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1020

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1021

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{c + a^2 c x^2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1022

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 c x^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1023

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1024

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1025

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1026

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1027

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1028

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1029

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1030

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1031

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1032

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1033

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1034

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1035

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1036

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1037

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1038

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1039

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1040

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1041

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1042

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1043

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + a^2cx^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1044

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1045

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1046

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1047

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^2}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^2/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1048

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1049

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1050

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1051

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^3}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^3/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1052

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1053

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1054

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1055

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2) \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1056

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1057

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1058

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1059

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1060

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1061

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1062

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1063

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1064

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^2 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^2/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1065

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1066

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1067

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1068

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1069

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1070

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1071

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1072

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1073

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^3 \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^3/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1074

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1075

Maxima [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1076

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+a^2cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1077

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1078

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1079

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1080

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1081

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1082

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1083

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1084

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1085

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2}}{x \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)/x/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1086

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1087

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1088

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1089

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{c+a^2cx^2}\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1090

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{c+a^2cx^2}\arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1091

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1092

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1093

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1094

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1095

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1096

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1097

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1098

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1099

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1100

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1101

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1102

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1103

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1104

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1105

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1106

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^2/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1107

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1108

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^4/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1109

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^n}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arctan(a*x)^n/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1110

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^n}{c + a^2cx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctan(a*x)^n/(a^2*c*x^2+c),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1111

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1154

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1155

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1156

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1158

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1161

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1162

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1163

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1165

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1166

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1169

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1170

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1171

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1172

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1173

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+ex^2}(a+b\arctan(cx))dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1174

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex^2}(a+b\arctan(cx))dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1176

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1180

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\arctan(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arctan(c*x))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1181

Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1182

Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1183

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1184

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1187

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1188

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1189

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^5} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1190

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \arctan(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arctan(c*x))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1191

Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1192

Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1193

Maxima [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1194

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1195

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1196

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1197

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1198

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (a + b \arctan(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(5/2)*(a+b*arctan(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1199

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1200

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1201

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1202

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1203

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1204

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1205

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1206

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1207

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1208

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1209

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1210

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1211

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1212

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1213

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1214

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1215

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1216

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1217

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1219

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1221

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^2 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1222

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1223

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x^4 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))/x^4/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1224

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(arctan(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1225

Maxima [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + dx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(arctan(a*x)/(d*x^2+c)^(9/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for more detail)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1226

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1260

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1262

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))^2/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1264

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1267

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1268

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1269

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(c*x))^2/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1271

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\arctan(a + bx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x+a)^2*arctan(b*x+a)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5

Test file number 280

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(c + dx)}{e + fx + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctan(d*x+c))/(g*x^2+f*x+e),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*e*g-f^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5

Test file number 280

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c + (1 + ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(arccot(c+(1+I*c)*tan(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c - (1 - ic) \tan(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate(arccot(c-(1-I*c)*tan(b*x+a))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(pi-arccot(-c-(1-I*c)*cot(b*x+a))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotan-
gent/281_5.4

Test file number 281

Integral number in file 27

Maxima [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(pi-arccot(-c-(1-I*c)*cot(b*x+a))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input `integrate(pi-arccot(-c-(1-I*c)*cot(b*x+a)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c + (1 - ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((pi-arccot(-c-(1-I*c)*cot(b*x+a)))/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotan-
gent/281_5.4

Test file number 281

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(pi-arccot(-c+(1+I*c)*cot(b*x+a))),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotan-
gent/281_5.4

Test file number 281

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(pi-arccot(-c+(1+I*c)*cot(b*x+a))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 32

Maxima [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: ValueError}$$

input `integrate(pi-arccot(-c+(1+I*c)*cot(b*x+a)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(c - (1 + ic) \cot(a + bx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((pi-arccot(-c+(1+I*c)*cot(b*x+a)))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + dx^2} \cot^{-1}(ax) dx = \text{Exception raised: ValueError}$$

input `integrate((d*x^2+c)^(1/2)*arccot(a*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/284_5.4.4

Test file number 284

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(arccot(a*x)/(d*x^2+c)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/284_5.4.4

Test file number 284

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(arccot(a*x)/(d*x^2+c)^(5/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotan-
gent/284_5.4.4

Test file number 284

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c+dx^2)^{7/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(arccot(a*x)/(d*x^2+c)^(7/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotan-
gent/284_5.4.4

Test file number 284

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(ax)}{(c + dx^2)^{9/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(arccot(a*x)/(d*x^2+c)^(9/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(d-a^2*c>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/284_5.4.4

Test file number 284

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int (a + bx)^2 \sqrt{\cot^{-1}(a + bx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*x+a)^2*arccot(b*x+a)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cot^{-1}(c + dx)}{e + fx + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccot(d*x+c))/(g*x^2+f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*e*g-f^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(a+b\sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\sec^{-1}(cx)}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int x^2\sqrt{d+ex^2}(a+b\sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex^2}(a+b\sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\sec^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsec(c*x))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + ex^2)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \sec^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^6,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \sec^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsec(c*x))/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^6 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^6/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^4 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^4/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^3(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int x\sqrt{d+ex}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x*(e*x+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{\sqrt{d + ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\csc^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsc(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int x^3(d+ex^2)^{3/2}(a+b\csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b \csc^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \csc^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsc(c*x))/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \csc^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsc(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int x \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int x^2 \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int x^3 \cosh^2(x) \coth^2(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*cosh(x)^2*coth(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sinh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c*sinh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 326

Maxima [F(-2)]

Exception generated.

$$\int \frac{b + c + \sinh(x)}{a - b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b+c*sinh(x))/(a-b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 327

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(b + a \cosh(x))}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(b+a*cosh(x))/(a+b*cosh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 329

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}(x)}{c + d \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sech(x))/(c+d*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^2(x)}{c + d \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*sech(x)^2)/(c+d*cosh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*d^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cosh(x) + b \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*cosh(x)+b*sinh(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 347

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cosh(x) + b \sinh(x))^5} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*cosh(x)+b*sinh(x))^5,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 349

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \coth(x) + b \operatorname{csch}(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*coth(x)+b*csch(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 410

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a \coth(x) + b \operatorname{csch}(x))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a*coth(x)+b*csch(x))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 412

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 449

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 452

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{b \cosh(x) + a \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)/(b*cosh(x)+a*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 454

Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{b \cosh(x) + a \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(coth(x)/(b*cosh(x)+a*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 455

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 456

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 458

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 459

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 461

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)*sinh(x)/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 466

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh^3(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)*sinh(x)^3/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 468

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh^2(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2*sinh(x)^2/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 470

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3*sinh(x)/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh^3(x)}{a \cosh(x) + b \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3*sinh(x)^3/(a*cosh(x)+b*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 474

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x) \sinh^2(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)*sinh(x)^2/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 476

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2*sinh(x)/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 478

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x) \sinh^3(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2*sinh(x)^3/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 480

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x) \sinh^2(x)}{(a \cosh(x) + b \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3*sinh(x)^2/(a*cosh(x)+b*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 482

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 484

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 485

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 486

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 487

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 488

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 489

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxi ma")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 494

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 496

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 497

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x)+C*sinh(x))/(b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 498

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 502

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 503

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 504

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)+c*sinh(x))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 505

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 517

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 518

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 519

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 520

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + c \operatorname{sech}(x) + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 540

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \coth(x) + c \operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 541

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 542

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + c\operatorname{sech}(x) + b\tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 544

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + c\operatorname{sech}(x) + b\tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^2/(a+c*sech(x)+b*tanh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2+b^2-a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 545

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \operatorname{coth}(x) + c \operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 547

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b \operatorname{coth}(x) + c \operatorname{csch}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^2/(a+b*coth(x)+c*csch(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 548

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 549

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 550

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 551

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 552

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 553

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 554

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 555

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 556

Maxima [F(-2)]

Exception generated.

$$\int \frac{B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 557

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{a + b \cosh(x) + c \sinh(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f
or more de
```


input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 558

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 559

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x) + C \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x)+C*sinh(x))/(a+b*cosh(x)+c*sinh(x))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 560

Maxima [F(-2)]

Exception generated.

$$\int \frac{b^2 - c^2 + ab \cosh(x) + ac \sinh(x)}{(a + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((b^2-c^2+a*b*cosh(x)+a*c*sinh(x))/(a+b*cosh(x)+c*sinh(x))^2,x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-b^2+a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 561

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cosh(x)}{b^2 + 2ab \cosh(x) + a^2 \cosh^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cosh(x))/(b^2+2*a*b*cosh(x)+a^2*cosh(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 596

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a + b \cosh(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^2/(a+b*cosh(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b \cosh(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2/(a+b*cosh(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 700

Maxima [F(-2)]

Exception generated.

$$\int \sinh(x) \sinh(mx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)*sinh(m*x),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 4

Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)*sinh(d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see `assume?` for more details)I

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh^2(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)*sinh(d*x+c)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \sinh(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)*sinh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 9

Maxima [F(-2)]

Exception generated.

$$\int \sinh^2(a + bx) \sinh^2(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)^2*sinh(d*x+c)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 10

Maxima [F(-2)]

Exception generated.

$$\int \sinh^2(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)^2*sinh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \sinh^3(a + bx) \sinh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)^3*sinh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detai

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \cosh(mx) \sinh(x) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(m*x)*sinh(x),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 16

Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)*sinh(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see `assume?` for more details)I

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2*sinh(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^3*sinh(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)*sinh(b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-d/b>0)', see `assume?` for more details)

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2*sinh(b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^3*sinh(b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \cosh(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)*sinh(b*x+a)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see `assume?` for more details)I

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 23

Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2*sinh(b*x+a)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(c + dx) \sinh^3(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^3*sinh(b*x+a)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \cosh(x) \sinh(mx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)*sinh(m*x),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \cosh(x) \cosh(mx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)*cosh(m*x),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)*cosh(d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-d/b>0)', see `assume?` for more details)I`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh^2(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)*cosh(d*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(2*d)/b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \cosh(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)*cosh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detail

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(a + bx) \cosh^2(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)^2*cosh(d*x+c)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(2*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \cosh^2(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)^2*cosh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(1-(3*d)/b>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \cosh^3(a + bx) \cosh^3(c + dx) dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)^3*cosh(d*x+c)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-(3*d)/b>0)', see `assume?` for more detai

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/292_6.2

Test file number 292

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int x^{-2+m} \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(x^(-2+m)*sinh(b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int x^{-3+m} \sinh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(x^(-3+m)*sinh(b*x+a)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 200

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \sinh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*sinh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(e + fx)(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sinh(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(e + fx)^2(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sinh(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx) \cosh^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*cosh(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(e + fx)(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cosh(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 269

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(e + fx)^2(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cosh(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 270

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3 \operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^3*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)^2*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e + fx)\operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x+e)*sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{a + ia \sinh(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sech(d*x+c)^3/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 286

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(e + fx)(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sech(d*x+c)^3/(f*x+e)/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(e + fx)^2(a + ia \sinh(c + dx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sech(d*x+c)^3/(f*x+e)^2/(a+I*a*sinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int e^x \sinh(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(exp(x)*sinh(b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-b>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/296_6.1.5

Test file number 296

Integral number in file 336

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(a + bx)}{c + dx + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(b*x+a)/(e*x^2+d*x+c),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*e-d^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/296_6.1.5

Test file number 296

Integral number in file 369

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sinh^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sinh(x)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/297_6.1.7.1

Test file number 297

Integral number in file 15

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^6(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 33

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^6(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 288

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 290

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^6(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^6/(a+b*sinh(d*x+c)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 292

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 293

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 295

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 297

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 302

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^6(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^6/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 305

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 307

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^2/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 310

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(d*x+c)^4/(a+b*sinh(d*x+c)^2)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 312

Maxima [F(-2)]

Exception generated.

$$\int x^{-2+m} \cosh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(x^(-2+m)*cosh(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-2>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int x^{-3+m} \cosh^2(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(x^(-3+m)*cosh(b*x+a)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(m-3>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 94

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^3/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{a + b \cosh(e + fx)} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(a+b*cosh(f*x+e)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^3/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)^2/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \cosh(e + fx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((d*x+c)/(a+b*cosh(f*x+e))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 59

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^3/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(d*x+c))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(d*x+c))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \cosh(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(d*x+c))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(x)}{(a + b \cosh(x))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(x))/(a+b*cosh(x))^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{bB}{a} + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((b*B/a+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{\frac{aB}{b} + B \cosh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*B/b+B*cosh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \cosh(x)}{(b + a \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*cosh(x))/(b+a*cosh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^6(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^6/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^6(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^6/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^2/(a+b*cosh(x))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(coth(x)^2/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^4(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(coth(x)^4/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \sinh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sinh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 199

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \tanh(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*tanh(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \coth(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*coth(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \operatorname{sech}(x)}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*sech(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 204

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \operatorname{csch}(x)}{a + b \operatorname{cosh}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*csch(x))/(a+b*cosh(x)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 205

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{a + b \cosh(d + ex)} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d)),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 206

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^2} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^3} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{A + B \cosh(d + ex) + C \sinh(d + ex)}{(a + b \cosh(d + ex))^4} dx = \text{Exception raised: ValueError}$$

input `integrate((A+B*cosh(e*x+d)+C*sinh(e*x+d))/(a+b*cosh(e*x+d))^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh(x)}{(a + b \cosh(x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*sinh(x)/(a+b*cosh(x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 218

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh(x)}{(a + b \cosh(x))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*sinh(x)/(a+b*cosh(x))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 228

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 229

Maxima [F(-2)]

Exception generated.

$$\int \frac{x \sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(x*sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 230

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \cosh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(d*x+c)^2/(a+b*cosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 231

Maxima [F(-2)]

Exception generated.

$$\int e^x \cosh(a + bx) dx = \text{Exception raised: ValueError}$$

input `integrate(exp(x)*cosh(b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-b>0)', see `assume?` for more d etails)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(a + bx)}{c + dx + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(b*x+a)/(e*x^2+d*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*c*e-d^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 337

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*cosh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1

Test file number 304

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cosh^2(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*cosh(x)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1

Test file number 304

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a - b \cosh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a-b*cosh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` for more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1

Test file number 304

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tanh(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*tanh(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tanh(c + dx)}} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*tanh(d*x+c))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)/(a+b*tanh(x)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/307_6.3.2

Test file number 307

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(csch(x)/(a+b*tanh(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/307_6.3.2

Test file number 307

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^5(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^5/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 88

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^7/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^5/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 112

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)/(a+b*tanh(x)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/307_6.3.2

Test file number 307

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(cosh(x)/(a+b*tanh(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/307_6.3.2

Test file number 307

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \tanh(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3/(a+b*tanh(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 115

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x}{a - \tanh(2x)} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(x)/(a-tanh(2*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x}{(a - \tanh(2x))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(x)/(a-tanh(2*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^2)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 105

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 106

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 107

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotan-
gent/310_6.4.2

Test file number 310

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^5(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(csch(x)^5/(a+b*coth(x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotan-
gent/310_6.4.2

Test file number 310

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \coth(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \operatorname{coth}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^3/(a+b*coth(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a^2-4*b^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \operatorname{sech}(c + dx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sech(d*x^2+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 22

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 29

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 30

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{sech}(c + dx^2))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sech(d*x^2+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 31

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 54

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 55

Maxima [F(-2)]

Exception generated.

$$\int \frac{x}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 56

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 69

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{a + b \operatorname{sech}(c + d\sqrt{x})} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \operatorname{sech}(c + d\sqrt{x}))} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*sech(c+d*x^(1/2))),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(3/2)/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x}}{(a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^(1/2)/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-b>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x} (a + b \operatorname{sech}(c + d\sqrt{x}))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/x^(1/2)/(a+b*sech(c+d*x^(1/2)))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/313_6.5.2

Test file number 313

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sinh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(csch(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 67

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \operatorname{sech}(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sech(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{sech}(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sech(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 92

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{sech}(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*sech(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 95

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^3/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 96

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 97

Maxima [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(cosh(x)/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 98

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 100

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^3/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(sech(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 102

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^6(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)^6/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 114

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(tanh(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(coth(x)^2/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{\coth^4(x)}{a + b\operatorname{sech}(x)} dx = \text{Exception raised: ValueError}$$

input `integrate(coth(x)^4/(a+b*sech(x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^2-4*a^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(sinh(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{i + \operatorname{csch}(x)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(sech(x)^3/(I+csch(x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/318_6.6.3

Test file number 318

Integral number in file 90

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^4(x)}{i + \operatorname{csch}(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sech(x)^4/(I+csch(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cose-
cant/318_6.6.3

Test file number 318

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{a + b \operatorname{csch}^2(c + dx)} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csch(d*x+c)^2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more
details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cose-
cant/319_6.6.7

Test file number 319

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{csch}^2(c + dx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{csch}^2(c + dx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \operatorname{csch}^2(c + dx))^4} dx = \text{Exception raised: ValueError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{a+bx}}{(g \cosh(d + bx) + f \sinh(d + bx))^2} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(b*x+a)/(g*cosh(b*x+d)+f*sinh(b*x+d))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-f>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2(a+bx)}}{g \cosh(d+bx) + f \sinh(d+bx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(exp(2*b*x+2*a)/(g*cosh(b*x+d)+f*sinh(b*x+d)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*f^2-4*g^2>0)', see `assume?` f
or more de
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2(a+bx)}}{(g \cosh(d+bx) + f \sinh(d+bx))^3} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(2*b*x+2*a)/(g*cosh(b*x+d)+f*sinh(b*x+d))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*f^2-4*g^2>0)', see `assume?` f or more de`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 14

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+bx)}}{g \cosh(d+bx) + f \sinh(d+bx)} dx = \text{Exception raised: ValueError}$$

input `integrate(exp(5/3*b*x+5/3*a)/(g*cosh(b*x+d)+f*sinh(b*x+d)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-f>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+bx)}}{(g \cosh(d+bx) + f \sinh(d+bx))^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(exp(5/3*b*x+5/3*a)/(g*cosh(b*x+d)+f*sinh(b*x+d))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-f>0)', see `assume?` for more details)Is
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 20

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{3}(a+bx)}}{(g \cosh(d+bx) + f \sinh(d+bx))^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(exp(5/3*b*x+5/3*a)/(g*cosh(b*x+d)+f*sinh(b*x+d))^3,x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-f>0)', see `assume?` for more
details)Is
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.7_Hyperbolic_exponential/323_6.7.3

Test file number 323

Integral number in file 21

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 74

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(1/2)*(a+b*arcsinh(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 169

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{7/2} (a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(7/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 174

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 175

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + b \operatorname{arcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 176

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsinh(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 177

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 178

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 179

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 180

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^2}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^2/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 181

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(5/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 182

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(3/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/324_7.1

Test file number 324

Integral number in file 183

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barcsinh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arcsinh(d*x+c))^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 184

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 185

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 187

Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 38

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 51

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 52

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 57

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 58

Maxima [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 62

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 63

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsinh(c*x))^2/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsinh}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsinh(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 168

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \operatorname{arcsinh}(cx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e-c^2*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \operatorname{arcsinh}(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsinh(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 186

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arcsinh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsinh(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 190

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 201

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 202

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 203

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 207

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 209

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx))}{\sqrt{d+icdx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 213

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 214

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{5/2}(a+\operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 215

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f-icfx)^{5/2}(a+\operatorname{barcsinh}(cx))}{\sqrt{d+icdx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 216

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 219

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 220

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 238

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorith="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 239

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} (f - icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorith="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 243

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 244

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 245

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 246

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 249

Maxima [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 250

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 251

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 252

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 255

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 256

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 266

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algo
rithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 271

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x^2*(pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxim
a")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negati
ve exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 60

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int x^2 (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 71

Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int x^2 (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^6} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^6,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 91

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 93

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + c^2dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 265

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 267

Maxima [F(-2)]

Exception generated.

$$\int x^2 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 273

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 275

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 277

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 279

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 281

Maxima [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 283

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 285

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 287

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 298

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 300

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 35

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 36

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 39

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 40

Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 41

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 42

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 47

Maxima [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 48

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(b*x+a)/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(b*x+a)/x^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(a + bx)}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(b*x+a)/x^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(a-1>0)', see `assume?` for more details)Is

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 8

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 17

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 28

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 37

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2}(a + \operatorname{arccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(5/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2}(a + \operatorname{barccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{barccosh}(c + dx)) dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arccosh(d*x+c)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{(ce + dex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(7/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{5/2} (a + \operatorname{arccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(5/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{barccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex} (a + \operatorname{barccosh}(c + dx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(1/2)*(a+b*arccosh(d*x+c))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int (ce + dex)^{3/2} (a + \operatorname{arccosh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input `integrate((d*e*x+c*e)^(3/2)*(a+b*arccosh(d*x+c))^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{ce + dex}(a + \operatorname{arccosh}(c + dx))^3 dx = \text{Exception raised: ValueError}$$

input

```
integrate((d*e*x+c*e)^(1/2)*(a+b*arccosh(d*x+c))^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + b \operatorname{arccosh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1-x^2} \operatorname{arccosh}(x) dx = \text{Exception raised: RuntimeError}$$

input `integrate((-x^2+1)^(1/2)*arccosh(x),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 65

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for more detail`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccosh(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e+c^2*d>0)', see `assume?` for m
ore detail
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \operatorname{arccosh}(cx)}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))^(1/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^{3/2}}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))^(3/2)/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 208

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 210

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 \operatorname{arccosh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 222

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 \operatorname{arccosh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 224

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 387

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barccosh}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 389

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 391

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 393

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/x^4/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 395

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + \operatorname{barccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 397

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{arccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 400

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 401

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 402

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 403

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + \operatorname{arccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 409

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + \operatorname{barccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 410

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 411

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate(arccosh(c*x)/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume
?` for mor
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5`

Test file number 335

Integral number in file 5

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(c*x)/(e*x+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 6

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^4} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(c*x)/(e*x+d)^4,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 7

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(c*x)^2/(e*x+d)^2,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 12

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(arccosh(c*x)^2/(e*x+d)^3,x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 13

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arccosh}(cx)}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 18

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arccosh}(cx)}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 19

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(cx))^2}{(d + ex)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccosh(c*x))^2/(e*x+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume
?` for mor
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 25

Maxima [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{(d + ex)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccosh(c*x))^2/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((e-c*d)*(e+c*d)>0)', see `assume ?` for mor`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 26

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 44

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))}{(f + gx)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/(g*x+f)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for more details)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 45

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="maxima")
```


output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="ma
xima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(g-c*f>0)', see `assume?` for mor
e details)
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 53

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(ax)^3}{x^2(1-a^2x^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctanh(a*x)^3/x^2/(-a^2*x^2+1)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 278

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(ax)^3}{x^2(1-a^2x^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arctanh(a*x)^3/x^2/(-a^2*x^2+1)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 319

Maxima [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arctanh}(x)}{a + bx + cx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(arctanh(x)/(c*x^2+b*x+a),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 518

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{arctanh}(c + dx))}{e - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arctanh(d*x+c))/(-f*x^2+e),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 64

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{e - fx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctanh(d*x+c))/(-f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 66

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{x^2(e - fx^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctanh(d*x+c))/x^2/(-f*x^2+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 68

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barctanh}(c + dx))}{e + fx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arctanh(d*x+c))/(f*x^3+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 70

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + \operatorname{barctanh}(c + dx))}{e + fx^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x*(a+b*arctanh(d*x+c))/(f*x^3+e),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 72

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{e + fx^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arctanh(d*x+c))/(f*x^3+e),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 73

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{x^2 (e + fx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctanh(d*x+c))/x^2/(f*x^3+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 75

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{x^3 (e + fx^3)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctanh(d*x+c))/x^3/(f*x^3+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 76

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arctanh}(c + dx)}{e + fx + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arctanh(d*x+c))/(g*x^2+f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*e*g-f^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/340_7.3.5

Test file number 340

Integral number in file 77

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{coth}^{-1}(c + dx)}{e + fx + gx^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccoth(d*x+c))/(g*x^2+f*x+e),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*e*g-f^2>0)', see `assume?` for more deta`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/345_7.4.5

Test file number 345

Integral number in file 49

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsech(c*x))/(e*x+d)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 79

Maxima [F(-2)]

Exception generated.

$$\int (d + ex)^{3/2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 80

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d+ex}(a+b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 81

Maxima [F(-2)]

Exception generated.

$$\int \frac{a+b\operatorname{sech}^{-1}(cx)}{\sqrt{d+ex}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c*d-e>0)', see `assume?` for mor
e details)
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1`

Test file number 347

Integral number in file 82

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsech(c*x))/(e*x+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for mor
e details)
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1`

Test file number 347

Integral number in file 83

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 84

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex)^{7/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x+d)^(7/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e+c*d>0)', see `assume?` for more details)`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 85

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 113

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x (d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsech(c*x))/(e*x^2+d)^2,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 121

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + b \operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int \frac{x(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 130

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x))/x^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d + ex^2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2}(a + b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2}(a + b\operatorname{sech}^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x))/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{sech}^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsech(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 141

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b\operatorname{sech}^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^2,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^4,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b \operatorname{sech}^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arcsech(c*x))/x^8,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1`

Test file number 347

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1`

Test file number 347

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 150

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{x\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \operatorname{sech}^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 155

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsech(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 158

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 159

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arcsech(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 164

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^2 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arcsech(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hy-
perbolic_secant/347_7.5.1

Test file number 347

Integral number in file 166

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 167

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{sech}^{-1}(cx)}{x(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 170

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{sech}^{-1}(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arcsech(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 171

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 172

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b\operatorname{sech}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arcsech(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 173

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{csch}^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 99

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{csch}^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a+b*arccsch(c*x))/(e*x^2+d),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 101

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arccsch}(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 103

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \operatorname{arccsch}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 108

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{arcsch}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 109

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{arcsch}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 110

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 111

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \operatorname{arcsch}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 116

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{arcsch}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 117

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/(e*x^2+d)^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 118

Maxima [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d + ex^2} (a + b \operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(e*x^2+d)^(1/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 119

Maxima [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1`

Test file number 349

Integral number in file 120

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (a + b \operatorname{arcsch}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsch(c*x))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 122

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+bcsch^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsch(c*x))/x^3,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 123

Maxima [F(-2)]

Exception generated.

$$\int x^2 \sqrt{d+ex^2}(a+bcsch^{-1}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 124

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{d + ex^2} (a + b \operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate((e*x^2+d)^(1/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 125

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsch(c*x))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 126

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arccsch(c*x))/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 127

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex^2}(a+b\operatorname{arcsch}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(1/2)*(a+b*arcsch(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1`

Test file number 349

Integral number in file 128

Maxima [F(-2)]

Exception generated.

$$\int x^3(d+ex^2)^{3/2}(a+b\operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arcsch(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 129

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 131

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x^3} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^3,x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^{3/2} (a + b\operatorname{arcsch}(cx)) dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^2*(e*x^2+d)^(3/2)*(a+b*arcsch(c*x)),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 133

Maxima [F(-2)]

Exception generated.

$$\int (d + ex^2)^{3/2} (a + b\operatorname{arccsch}(cx)) dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x)),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 134

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b\operatorname{arccsch}(cx))}{x^2} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 135

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b\operatorname{arcsch}(cx))}{x^4} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^4,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 136

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + b\operatorname{arcsch}(cx))}{x^6} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^6,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 137

Maxima [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (a + bcsch^{-1}(cx))}{x^8} dx = \text{Exception raised: ValueError}$$

input `integrate((e*x^2+d)^(3/2)*(a+b*arccsch(c*x))/x^8,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 138

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + bcsch^{-1}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 139

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{arcsch}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^3*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 140

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 142

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x^3 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 143

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{arcsch}(cx))}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 144

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{arcsch}(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 145

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}(cx)}{x^2 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 146

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}(cx)}{x^4 \sqrt{d + ex^2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^4/(e*x^2+d)^(1/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 147

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 148

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b\operatorname{arcsch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^3*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 149

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{arcsch}^{-1}(cx)}{x(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 151

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x^3 (d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \operatorname{arcsch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 153

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b\operatorname{csch}^{-1}(cx))}{(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^2*(a+b*arccsch(c*x))/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 154

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b\operatorname{csch}^{-1}(cx)}{x^2(d + ex^2)^{3/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^2/(e*x^2+d)^(3/2),x, algorithm="maxima")`

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 156

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{bcsch}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(x^5*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(e>0)', see `assume?` for more de
tails)Is e
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hy-
perbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 157

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 160

Maxima [F(-2)]

Exception generated.

$$\int \frac{a + b \operatorname{arcsch}^{-1}(cx)}{x^3 (d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate((a+b*arccsch(c*x))/x^3/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 161

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \operatorname{arcsch}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^6*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 162

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \operatorname{arcsch}^{-1}(cx))}{(d + ex^2)^{5/2}} dx = \text{Exception raised: ValueError}$$

input `integrate(x^4*(a+b*arccsch(c*x))/(e*x^2+d)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(e>0)', see `assume?` for more details)Is e`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 163

Maxima [F(-2)]

Exception generated.

$$\int \sin^{99}(x) \sin(101x) dx = \text{Exception raised: RuntimeError}$$

input `integrate(sin(x)^99*sin(101*x),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: Memory limit reached. Please jump to an outer pointer, quit program and enlarge thememory limits before executing the program again.`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 46

Maxima [F(-2)]

Exception generated.

$$\int x(a + bx^2)^{-m} dx = \text{Exception raised: ValueError}$$

input `integrate(x/((b*x^2+a)^m),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(-m>0)', see `assume?` for more details)Is`

input file name test_cases/extra_tests/360_table_of_integrals

Test file number 360

Integral number in file 61

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{18}{2x^2+x^2\log(x)}} (-90 + 4x^2 + (-36 + 4x^2)\log(x) + x^2\log^2(x))}{4x^2 + 4x^2\log(x) + x^2\log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((x^2*log(x)^2+(4*x^2-36)*log(x)+4*x^2-90)*exp(18/(x^2*log(x)+2*x^2))/(x^2*log(x)^2+4*x^2*log(x)+4*x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 86

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4x^3}{11x-2e^2x-2x^2+2\log(x)}} (-8x^2 + 88x^3 - 16e^2x^3 - 8x^4 + 24x^2\log(x))}{121x^2 + 4e^4x^2 - 44x^3 + 4x^4 + e^2(-44x^2 + 8x^3) + (44x - 8e^2x - 8x^2)\log(x) + 4\log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((24*x^2*log(x)-16*x^3*exp(2)-8*x^4+88*x^3-8*x^2)*exp(2*x^3/(2*log(x)-2*exp(2)*x-2*x^2+11*x))^2/(4*log(x)^2+(-8*exp(2)*x-8*x^2+44*x)*log(x)+4*x^2*exp(2)^2+(8*x^3-44*x^2)*exp(2)+4*x^4-44*x^3+121*x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 152

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4+2x+2\log(x^2)}} (-16 + 8x + 20x^2 + 6x^3 + (-16 + 17x + 11x^2) \log(x^2) + (-4 + 6x) \log^2(x^2))}{8x^3 - 8x^4 - 6x^5 + 4x^6 + 2x^7 + (8x^3 - 12x^4 + 4x^6) \log(x^2) + (2x^3 - 4x^4 + 2x^5) \log^2(x^2)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((6*x-4)*log(x^2)^2+(11*x^2+17*x-16)*log(x^2)+6*x^3+20*x^2+8*x-1
6)*exp(x/(2*log(x^2)+2*x+4))/((2*x^5-4*x^4+2*x^3)*log(x^2)^2+(4*x^6-12*x^4
+8*x^3)*log(x^2)+2*x^7+4*x^6-6*x^5-8*x^4+8*x^3),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 284

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{-4x^2+x^2\log(\log(x))}} (-5 + 40 \log(x) - 10 \log(x) \log(\log(x)))}{16x^3 \log(x) - 8x^3 \log(x) \log(\log(x)) + x^3 \log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

input `integrate((-10*log(x)*log(log(x))+40*log(x)-5)*exp(5/(x^2*log(log(x))-4*x^2))/(x^3*log(x)*log(log(x))^2-8*x^3*log(x)*log(log(x))+16*x^3*log(x)),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int \frac{4x^3 \log(x) \log^2(\log(x)) + e^{\frac{-8x-5e^3x+x^2-10\log(\log(x))}{\log(\log(x))}} (8 + 5e^3 - x + (-8 - 5e^3 + 2x) \log(x) \log(\log(x))) + e^{-\frac{1}{\log(x) \log(\log(x))}}}{\log(x) \log(\log(x))^2} dx$$

= Exception raised: RuntimeError

input `integrate(((((-5*exp(3)+2*x-8)*log(x)*log(log(x))+5*exp(3)+8-x)*exp(1/2*(-10*log(log(x))-5*x*exp(3)+x^2-8*x)/log(log(x)))^2+(4*x*log(x)*log(log(x))^2+(-5*x^2*exp(3)+2*x^3-8*x^2)*log(x)*log(log(x))+5*x^2*exp(3)-x^3+8*x^2)*exp(1/2*(-10*log(log(x))-5*x*exp(3)+x^2-8*x)/log(log(x)))+4*x^3*log(x)*log(log(x))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 473

Maxima [F(-2)]

Exception generated.

$$\int \frac{(600 + 630x + 30x^2) \log\left(\frac{20+x}{4}\right) \log^2\left(\log\left(\frac{20+x}{4}\right)\right) + e^{\frac{2(e^5x^2 - 3x^3 \log(\log(\frac{20+x}{4})))}{15 \log(\log(\frac{20+x}{4}))}} (-2e^5x^2 + e^5(80x + 4x^2) \log$$

= Exception raised: RuntimeError

input

```
integrate(((((-18*x^3-360*x^2)*log(5+1/4*x)*log(log(5+1/4*x))^2+(4*x^2+80*x)
)*exp(5)*log(5+1/4*x)*log(log(5+1/4*x))-2*x^2*exp(5))*exp(1/15*(-3*x^3*log
(log(5+1/4*x))+x^2*exp(5))/log(log(5+1/4*x)))^2+((-18*x^4-378*x^3-360*x^2+
30*x+600)*log(5+1/4*x)*log(log(5+1/4*x))^2+(4*x^3+84*x^2+80*x)*exp(5)*log(
5+1/4*x)*log(log(5+1/4*x))+(-2*x^3-2*x^2)*exp(5))*exp(1/15*(-3*x^3*log(log
(5+1/4*x))+x^2*exp(5))/log(log(5+1/4*x)))+(30*x^2+630*x+600)*log(5+1/4*x)*
log(log(5+1/4*x))^2)/(15*x+300)/log(5+1/4*x)/log(log(5+1/4*x))^2,x, algori
thm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 556

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4x^4}{3x}} e^{\frac{6x}{10+2\log(x)}} x^2 - 4e^{\frac{9x}{10+2\log(x)}} x \log\left(\frac{1}{x}\right) + \log^2\left(\frac{1}{x}\right)}{-25 \log^3\left(\frac{1}{x}\right) - 10 \log^3\left(\frac{1}{x}\right) \log(x) - \log^3\left(\frac{1}{x}\right) \log^2(x) + e^{\frac{9x}{10+2\log(x)}} (200x^3 + 80x^3 \log(x) + 8x^3 \log^2(x))} +$$

= Exception raised: RuntimeError

input

```
integrate(((16*x^4*log(x)^2+(-24*x^5+160*x^4)*log(x)-96*x^5+400*x^4)*exp(3*x/(2*log(x)+10))+(-16*x^3*log(1/x)-8*x^3)*log(x)^2+(-160*x^3*log(1/x)-80*x^3)*log(x)-400*x^3*log(1/x)-200*x^3)*exp(4*x^4/(4*x^2*exp(3*x/(2*log(x)+10)))^2-4*x*log(1/x)*exp(3*x/(2*log(x)+10))+log(1/x)^2))/((8*x^3*log(x)^2+80*x^3*log(x)+200*x^3)*exp(3*x/(2*log(x)+10))^3+(-12*x^2*log(1/x)*log(x)^2-120*x^2*log(1/x)*log(x)-300*x^2*log(1/x))*exp(3*x/(2*log(x)+10))^2+(6*x*log(1/x)^2*log(x)^2+60*x*log(1/x)^2*log(x)+150*x*log(1/x)^2)*exp(3*x/(2*log(x)+10))-log(1/x)^3*log(x)^2-10*log(1/x)^3*log(x)-25*log(1/x)^3),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 797

Maxima [F(-2)]

Exception generated.

$$\int 4^{\frac{-16-8x-x^2}{-2-2x+2\log(\log(x^2))}} \frac{((32+48x+18x^2+2x^3)\log(4) + (2+8x+10x^2+4x^3+(-8x-6x^2+3x^3+x^4)\log(4)))}{(2+4x+2x^2)\log(x^2) + (-4-4x)\log(x^2)}$$

= Exception raised: RuntimeError

input

```
integrate(((2+4*x)*log(x^2)*log(log(x^2))^2+(2*(-2*x^3-10*x^2-8*x)*log(2)-8*x^2-12*x-4)*log(x^2)*log(log(x^2)))+(2*(x^4+3*x^3-6*x^2-8*x)*log(2)+4*x^3+10*x^2+8*x+2)*log(x^2)+2*(2*x^3+18*x^2+48*x+32)*log(2))*exp(2*(-x^2-8*x-16)*log(2)/(2*log(log(x^2))-2*x-2))/(2*log(x^2)*log(log(x^2))^2+(-4-4*x)*log(x^2)*log(log(x^2)))+(2*x^2+4*x+2)*log(x^2)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 835

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{5/4}(-360 + 72x) \log^3(x) + e^{5/4}(-90 + 36x) \log^4(x) + (180 - 72x) \log^5(x)}{-e^{25/4} + 10e^5 \log(x) - 40e^{15/4} \log^2(x) + 80e^{5/2} \log^3(x) - 80e^{5/4} \log^4(x) + 32 \log^5(x)} dx = \text{Exception raised}$$

input

```
integrate((( -72*x+180)*log(x)^5+(36*x-90)*exp(5/4)*log(x)^4+(72*x-360)*exp(5/4)*log(x)^3)/(32*log(x)^5-80*exp(5/4)*log(x)^4+80*exp(5/4)^2*log(x)^3-40*exp(5/4)^3*log(x)^2+10*exp(5/4)^4*log(x)-exp(5/4)^5),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 852

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{2(4x-36x^2+(3-108x)\log(\log(\frac{e^x}{x})))}{x+3\log(\log(\frac{e^x}{x}))}} \frac{(18x^2 - 18x^3 + (2x^3 - 72x^4) \log(\frac{e^x}{x}) + (30x^2 - 432x^3) \log(\frac{e^x}{x}) \log(\log(\frac{e^x}{x})))}{x^2 \log(\frac{e^x}{x}) + 6x \log(\frac{e^x}{x}) \log(\log(\frac{e^x}{x})) + 9 \log(\frac{e^x}{x}) \log^2(\log(\frac{e^x}{x}))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((( -648*x^2+18*x)*log(exp(x)/x)*log(log(exp(x)/x))^2+(-432*x^3+30*x^2)*log(exp(x)/x)*log(log(exp(x)/x))+(-72*x^4+2*x^3)*log(exp(x)/x)-18*x^3+18*x^2)*exp((( -108*x+3)*log(log(exp(x)/x))-36*x^2+4*x)/(3*log(log(exp(x)/x))+x))^2/(9*log(exp(x)/x)*log(log(exp(x)/x))^2+6*x*log(exp(x)/x)*log(log(exp(x)/x))+x^2*log(exp(x)/x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1407

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-x+x \log(3)-4x \log\left(\frac{25+6x+5 \log(x)}{5+x+\log(x)}\right)}{4 \log\left(\frac{25+6x+5 \log(x)}{5+x+\log(x)}\right)}} \left(4x - 4x \log(3) + (x - x \log(3)) \log(x) + (-125 - 55x - 6x^2 + (125 + 55x)\right)$$

= Exception raised: RuntimeError

input

```
integrate((( -20*log(x)^2+(-44*x-200)*log(x)-24*x^2-220*x-500)*log((5*log(x)
)+6*x+25)/(5+log(x)+x))^2+((5*log(3)-5)*log(x)^2+((11*x+50)*log(3)-11*x-50
)*log(x)+(6*x^2+55*x+125)*log(3)-6*x^2-55*x-125)*log((5*log(x)+6*x+25)/(5+
log(x)+x))+(-x*log(3)+x)*log(x)-4*x*log(3)+4*x)*exp(1/4*(-4*x*log((5*log(x)
)+6*x+25)/(5+log(x)+x))+x*log(3)-x)/log((5*log(x)+6*x+25)/(5+log(x)+x)))/(
20*log(x)^2+(44*x+200)*log(x)+24*x^2+220*x+500)/log((5*log(x)+6*x+25)/(5+l
og(x)+x))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1456

Maxima [F(-2)]

Exception generated.

$$\int \frac{-25x + e^{\frac{1}{5}(-26-5x^2+5\log(x^2))}(-250 + 250x^2)}{25e^{\frac{2}{5}(-26-5x^2+5\log(x^2))}x + 10e^{\frac{1}{5}(-26-5x^2+5\log(x^2))}x^2 + x^3} dx$$

= Exception raised: RuntimeError

input

```
integrate(((250*x^2-250)*exp(log(x^2)-x^2-26/5)-25*x)/(25*x*exp(log(x^2)-x^2-26/5)^2+10*x^2*exp(log(x^2)-x^2-26/5)+x^3),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1508

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(120 - 480x + 400x^2 - 40x^4 + e^{2/3})}{64000 - 72000x + 3000x^2 + 14625x^3 - 375x^4 - 1125x^5 - 125x^6 + e^2(-1 + 3x - 3x^2 + x^3) + e^{4/3}(120 - 480x + 400x^2 - 40x^4 + e^{2/3})} dx$$

input

```
integrate(((8*x^3-24*x^2+24*x-8)*exp(2/3)-40*x^4+400*x^2-480*x+120)*exp(x)^2/((x^3-3*x^2+3*x-1)*exp(2/3)^3+(-15*x^4-15*x^3+195*x^2-285*x+120)*exp(2/3)^2+(75*x^5+375*x^4-975*x^3-3075*x^2+8400*x-4800)*exp(2/3)-125*x^6-1125*x^5-375*x^4+14625*x^3+3000*x^2-72000*x+64000),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1522

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{2x^2}{\log(\log(x))}} (-2x + 4x \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

input `integrate(((4*x*log(x)*log(log(x))-2*x)*exp(x^2/log(log(x))))^2+log(x)*log(log(x))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1820

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^x(-60x^2 + 24x^3) \log^2(x) + e^x(24x^2 - 12x^3) \log^3(x) + e^{\frac{5-3x^3 \log(x)}{3x^2 \log(x)}} (20e^x + 40e^x \log(x) + 24e^x x^2 \log^2(x))}{3x^5 \log^2(x)}$$

= Exception raised: RuntimeError

input `integrate(1/3*((24*x^2*exp(x)*log(x)^2+40*exp(x)*log(x)+20*exp(x))*exp(1/3*(-3*x^3*log(x)+5)/x^2/log(x))+(-12*x^3+24*x^2)*exp(x)*log(x)^3+(24*x^3-60*x^2)*exp(x)*log(x)^2)/x^5/log(x)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1913

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-2-x}{(-x+2x^3)\log(x)}} (-2-x+4x^2+2x^3+(-2+12x^2+4x^3)\log(x))}{(x^2-4x^4+4x^6)\log^2(x)} dx$$

= Exception raised: RuntimeError

input `integrate(((4*x^3+12*x^2-2)*log(x)+2*x^3+4*x^2-x-2)*exp((-2-x)/(2*x^3-x)/log(x))/(4*x^6-4*x^4+x^2)/log(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2019

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{135x}{-5x^2+\log(x)}} (-270x+1350x^3+50x^4+(270x-20x^2)\log(x)+2\log^2(x))}{375x^4-150x^2\log(x)+15\log^2(x)} dx$$

= Exception raised: RuntimeError

input `integrate((2*log(x)^2+(-20*x^2+270*x)*log(x)+50*x^4+1350*x^3-270*x)*exp(135*x/(log(x)-5*x^2))/(15*log(x)^2-150*x^2*log(x)+375*x^4),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2240

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^2 + 2x \log(x) + \log^2(x) + e^{\frac{2(25+ex^2+ex \log(x))}{x^2+x \log(x)}} (-25 - 50x + x^3 + (-25 + 2x^2) \log(x) + x \log^2(x))}{x^2 + 2x \log(x) + \log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((x*log(x)^2+(2*x^2-25)*log(x)+x^3-50*x-25)*exp((x*exp(1)*log(x)
+x^2*exp(1)+25)/(x*log(x)+x^2))^2+log(x)^2+2*x*log(x)+x^2)/(log(x)^2+2*x*log(x)+x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2344

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+5x}{(39x-8x^2-4x^3+x^4) \log(x)}} (-585 + 315x + 20x^2 - 35x^3 + 5x^4 + (-585 + 240x + 140x^2 - 100x^3 + 15x^4) \log(x))}{(1521x^2 - 624x^3 - 248x^4 + 142x^5 - 8x^7 + x^8) \log^2(x)}$$

= Exception raised: RuntimeError

input

```
integrate(((15*x^4-100*x^3+140*x^2+240*x-585)*log(x)+5*x^4-35*x^3+20*x^2+3
15*x-585)*exp((5*x-15)/(x^4-4*x^3-8*x^2+39*x)/log(x))/(x^8-8*x^7+142*x^5-2
48*x^4-624*x^3+1521*x^2)/log(x)^2,x, algorithm="maxima")
```


output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2570

Maxima [F(-2)]

Exception generated.

$$\int \frac{-16x + 256\sqrt[5]{ex} - 256x^2 - 1024x^3 + (-48 + 768\sqrt[5]{e} - 768x - 3072x^2) \log(2) + (-16x + 256\sqrt[5]{ex} + 1}{(x + 256e^{2/5}x + 32x^2 + 384x^3 + 2048x^4 + 4096x^5 + \sqrt[5]{e}(-32x - 512x^2 -$$

input

```
integrate((((6144*x^2+768*x)*log(2)+256*x*exp(1/5)+1024*x^3-16*x)*log(x)*log(log(x))+(768*exp(1/5)-3072*x^2-768*x-48)*log(2)+256*x*exp(1/5)-1024*x^3-256*x^2-16*x)/(256*x*exp(1/5)^2+(-2048*x^3-512*x^2-32*x)*exp(1/5)+4096*x^5+2048*x^4+384*x^3+32*x^2+x)/log(2)/log(x),x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2697

Maxima [F(-2)]

Exception generated.

$$\int \frac{-28x^2 - 48x^3 - 20x^4 + (i\pi + \log(5 - e))^4 (-20 - 10 \log(\frac{4}{x^2})) + (-14x^2 - 28x^3 - 10x^4) \log(\frac{4}{x^2}) + (i}{5x^4 + 10x^5 + 5x^6 + (20x^4 + 20x^5) (i$$

= Exception raised: ValueError

input

```
integrate((( -10*log(4/x^2)-20)*log(exp(1)-5)^4+(-40*x*log(4/x^2)-80*x)*log
(exp(1)-5)^3+((-60*x^2-20*x)*log(4/x^2)-120*x^2-48*x)*log(exp(1)-5)^2+((-4
0*x^3-48*x^2)*log(4/x^2)-80*x^3-96*x^2)*log(exp(1)-5)+(-10*x^4-28*x^3-14*x
^2)*log(4/x^2)-20*x^4-48*x^3-28*x^2)/(5*x^2*log(exp(1)-5)^4+20*x^3*log(exp
(1)-5)^3+(30*x^4+10*x^3)*log(exp(1)-5)^2+(20*x^5+20*x^4)*log(exp(1)-5)+5*x
^6+10*x^5+5*x^4),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*log(%e-5)+1>0)', see `assume?`
for more
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2729

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(2+x) + (e^x(4+2x) + e^{2x}(3x+2x^2))\log(x) + (2-4e^{2x}+x-4e^{3x}x+e^x(6x+4x^2))\log^2(x) + (3e^{4x}x\log^2(x) + 2e^{3x}x\log^3(x) + e^{2x}x\log^4(x))}{e^{4x}x\log^2(x) + 2e^{3x}x\log^3(x) + e^{2x}x\log^4(x)}$$

= Exception raised: RuntimeError

input

```
integrate(((2*x^2+3*x)*log(x)^3+(-4*x*exp(x)^3-4*exp(x)^2+(4*x^2+6*x)*exp(
x)+2*x)*log(x)^2+((2*x^2+3*x)*exp(x)^2+(4+2*x)*exp(x))*log(x)+(2+x)*exp(x)
^2)/(x*exp(x)^2*log(x)^4+2*x*exp(x)^3*log(x)^3+x*exp(x)^4*log(x)^2),x, alg
orithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2985

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{1+x-3x^3-6x^4-3x^5}{5e^x x^2-5x^3}} (3x+2x^2+6x^5+6x^6+e^x(-2-2x-x^2-3x^3-9x^4-3x^5+3x^6)) \frac{dx}{5e^{2x}x^3-10e^x x^4+5x^5}$$

= Exception raised: RuntimeError

input

```
integrate(((3*x^6-3*x^5-9*x^4-3*x^3-x^2-2*x-2)*exp(x)+6*x^6+6*x^5+2*x^2+3*x)*exp((-3*x^5-6*x^4-3*x^3+x+1)/(5*exp(x)*x^2-5*x^3))/(5*exp(x)^2*x^3-10*exp(x)*x^4+5*x^5),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 34

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-3x^2+(15x+9x^2)\log(\log(5-\log(x)))}{(5+3x)\log(\log(5-\log(x)))}} (75x^2+45x^3+(750x^2+225x^3+(-150x^2-45x^3)\log(x))\log(5-\log(x))\log(5-\log(x))) \frac{dx}{(-125-150x-45x^2+(225x^2+150x+75)\log(5-\log(x)))^2}$$

= Exception raised: RuntimeError

input

```
integrate((((135*x^3+495*x^2+525*x+125)*log(x)-675*x^3-2475*x^2-2625*x-625)*log(5-log(x))*log(log(5-log(x)))^2+((-45*x^3-150*x^2)*log(x)+225*x^3+750*x^2)*log(5-log(x))*log(log(5-log(x)))+45*x^3+75*x^2)*exp(((9*x^2+15*x)*log(log(5-log(x)))-3*x^2)/(3*x+5)/log(log(5-log(x)))))/((9*x^2+30*x+25)*log(x)-45*x^2-150*x-125)/log(5-log(x))/log(log(5-log(x)))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 50

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e^x(1+4x+4\log^2(3))+\log(x))\log^2(e^x(1+4x+4\log^2(3))+\log(x))+e^{\frac{x}{\log(e^x(1+4x+4\log^2(3))+\log(x))}}(-1)}{(e^x(1+4x+4\log^2(3))+\log(x))}$$

= Exception raised: RuntimeError

input `integrate((((log(x)+(4*log(3)^2+4*x+1)*exp(x))*log(log(x)+(4*log(3)^2+4*x+1)*exp(x))+(-4*x*log(3)^2-4*x^2-5*x)*exp(x)-1)*exp(x/log(log(x)+(4*log(3)^2+4*x+1)*exp(x)))+(log(x)+(4*log(3)^2+4*x+1)*exp(x))*log(log(x)+(4*log(3)^2+4*x+1)*exp(x))^2)/(log(x)+(4*log(3)^2+4*x+1)*exp(x))/log(log(x)+(4*log(3)^2+4*x+1)*exp(x))^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 330

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{2e^{x^2}+x^3\log(e^{x^2}+2x)}{\log(e^{x^2}+2x)}} \frac{(-4e^{x^2}-4e^{2x^2}x+(4e^{2x^2}x+8e^{x^2}x^2)\log(e^{x^2}+2x)+(3e^{x^2}x^2+6x^3)\log^2(e^{x^2}+2x))}{(e^{x^2}+2x)\log^2(e^{x^2}+2x)}$$

= Exception raised: RuntimeError

input `integrate(((3*exp(x^2)*x^2+6*x^3)*log(exp(x^2)+2*x)^2+(4*x*exp(x^2)^2+8*exp(x^2)*x^2)*log(exp(x^2)+2*x)-4*x*exp(x^2)^2-4*exp(x^2))*exp((x^3*log(exp(x^2)+2*x)+2*exp(x^2))/log(exp(x^2)+2*x))/(exp(x^2)+2*x)/log(exp(x^2)+2*x)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 379

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2x \log(x)} + \frac{1}{2x \log(x)}} (-3 - 3 \log(x)) - 6x^2 \log^2(x)}{8e^{4+e^{\frac{1}{2x \log(x)}}} x^2 \log^2(x) - 8e^4 x^3 \log^2(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(((3*log(x)-3)*exp(1/2/x/log(x))*exp(exp(1/2/x/log(x)))-6*x^2*log(x)^2)/(8*x^2*exp(4)*log(x)^2*exp(exp(1/2/x/log(x)))-8*x^3*exp(4)*log(x)^2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 386

Maxima [F(-2)]

Exception generated.

$$\int \frac{-180x^2 + 60x^3 + e^{\frac{1}{4}(3+4x)}(-36x^2 + 24x^3 - 3x^4) + e^x(36x^2 - 24x^3 + 3x^4)}{25 - 10e^x + e^{2x} + e^{\frac{1}{2}(3+4x)} + e^{\frac{1}{4}(3+4x)}(10 - 2e^x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((( -3*x^4+24*x^3-36*x^2)*exp(3/4+x)+(3*x^4-24*x^3+36*x^2)*exp(x)+
60*x^3-180*x^2)/(exp(3/4+x)^2+(-2*exp(x)+10)*exp(3/4+x)+exp(x)^2-10*exp(x)
+25),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 601

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{x}{\log(-e^{2+e^{(5+x)^{7 \log(x)}}}-x)}} \left((25x^2 + 10x^3 + x^4) \log^2(x) + e^{\frac{7}{(5+x)\log(x)}} (35x + 7x^2 + 7x^2 \log(x)) + \log^2(-e^2 + e^x) \right) dx$$

= Exception raised: RuntimeError

input

```
integrate(((( -x^2-10*x-25)*log(x)^2*exp(7/log(x)/(5+x))+((x^2+10*x+25)*exp
(2)+x^3+10*x^2+25*x)*log(x)^2)*log(exp(7/log(x)/(5+x))-exp(2)-x)^2+((x^3+1
0*x^2+25*x)*log(x)^2*exp(7/log(x)/(5+x))+((-x^3-10*x^2-25*x)*exp(2)-x^4-10
*x^3-25*x^2)*log(x)^2)*log(exp(7/log(x)/(5+x))-exp(2)-x)+(7*x^2*log(x)+7*x
^2+35*x)*exp(7/log(x)/(5+x))+(x^4+10*x^3+25*x^2)*log(x)^2)*exp(x/log(exp(7
/log(x)/(5+x))-exp(2)-x))/(x^4+10*x^3+25*x^2)*log(x)^2*exp(7/log(x)/(5+x)
))+((-x^4-10*x^3-25*x^2)*exp(2)-x^5-10*x^4-25*x^3)*log(x)^2)/log(exp(7/log(
x)/(5+x))-exp(2)-x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 691

Maxima [F(-2)]

Exception generated.

$$\int \frac{-4096x^3 - 768x^6 - 48x^9 - x^{12} + (-73728 + 442368x - 516096x^2 - 446976x^3 - 18432x^4 - 105984x^5}{(x^{12} + 48x^9 + 768x^6 + 4096x^3), x, \text{algorithm}="maxima")}$$

= Exception raised: RuntimeError

input

```
integrate(((((-18*x^13-54*x^12-864*x^10-2592*x^9-864*x^8-17280*x^7-41472*x^6
-13824*x^5-142848*x^4-202752*x^3-221184*x+73728)*log(x)^2+(-18*x^13-108*x^
12-162*x^11-864*x^10-5184*x^9-7200*x^8-12096*x^7-82944*x^6-105984*x^5-1843
2*x^4-446976*x^3-516096*x^2+442368*x-73728)*log(x)-x^12-48*x^9-768*x^6-409
6*x^3)/(x^12+48*x^9+768*x^6+4096*x^3),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 912

Maxima [F(-2)]

Exception generated.

$$\int \frac{-10x^7 \log(2) + (45x^4 + 5x^9) \log^2(2) + (10x^5 + (-54x^2 - 6x^7) \log(2)) \log(9 + x^5) + (9 + x^5) \log^2(9 + x^5)}{(9 + x^5) \log^2(2)} dx$$

= Exception raised: RuntimeError

input `integrate(((x^5+9)*log(x^5+9)^2+((-6*x^7-54*x^2)*log(2)+10*x^5)*log(x^5+9)+
 +(5*x^9+45*x^4)*log(2)^2-10*x^7*log(2))/(x^5+9)/log(2)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: sign: argument cannot be imaginary; found sqrt(sqrt(5)-5)

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 971

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{4x^2+x^2 \log(169)}{20 \log(50-x)}} \frac{(-4x^2 - x^2 \log(169) + (-400x + 8x^2 + (-100x + 2x^2) \log(169)) \log(50 - x)) \log(50 - x)}{(-1000 + 20x) \log^2(50 - x)} dx$$

= Exception raised: RuntimeError

input `integrate(((2*(2*x^2-100*x)*log(13)+8*x^2-400*x)*log(-x+50)-2*x^2*log(13)-
 4*x^2)*exp(1/20*(2*x^2*log(13)+4*x^2)/log(-x+50))/(20*x-1000)/log(-x+50)^2,
 x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1051

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+3x}{x+\log(x)}} (15x^3 + 12x^4 + 3x^5 + e^x(-15 - 12x - x^3) + (-15x^2 - 12x^3 - 2x^4) \log(15) + (9x^4 + e^x(-3x - 2x^3 + 4x^2 \log(x) + 2x \log^2(x)))}{2x^3 + 4x^2 \log(x) + 2x \log^2(x)}$$

= Exception raised: RuntimeError

input

```
integrate((( -exp(x)*x-2*x^2*log(15)+3*x^3)*log(x)^2+((-2*x^2-3*x)*exp(x)-7
*x^3*log(15)+9*x^4)*log(x)+(-x^3-12*x-15)*exp(x)+(-2*x^4-12*x^3-15*x^2)*lo
g(15)+3*x^5+12*x^4+15*x^3)*exp((3*x-15)/(x+log(x)))/(2*x*log(x)^2+4*x^2*lo
g(x)+2*x^3),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1134

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{180x^3}{(-1+x)\log(x)}} (-180x^2 + 180x^3 + (540x^2 - 360x^3) \log(x))}{(1 - 2x + x^2) \log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((( -360*x^3+540*x^2)*log(x)+180*x^3-180*x^2)*exp(-180*x^3/(-1+x)/
log(x))/(x^2-2*x+1)/log(x)^2,x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1177

Maxima [F(-2)]

Exception generated.

$$\int e^{-4 + \frac{-2x + e^4 \log(x+x^2) \log(\log(x))}{e^4 \log(x+x^2)}} \frac{((12x + 24x^2) \log(x) + (-12x - 12x^2) \log(x) \log(x+x^2) + e^4(6 + 6x) \log^2(x))}{(x+x^2) \log(x) \log^2(x+x^2)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((6+6*x)*exp(4)*log(x^2+x)^2+(-12*x^2-12*x)*log(x)*log(x^2+x)+(2
4*x^2+12*x)*log(x))*exp((exp(4)*log(x^2+x)*log(log(x))-2*x)/exp(4)/log(x^2
+x))/(x^2+x)/exp(4)/log(x)/log(x^2+x)^2,x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1476

Maxima [F(-2)]

Exception generated.

$$\int \frac{81x^2 + 18x^4 + x^6 + (162x + 18x^3) \log(2) + 81 \log^2(2) + (-81x^2 - 18x^3 - 18x^4 - 2x^5 - x^6 + (-162x$$

= Exception raised: RuntimeError

input

```
integrate(((x^4*log(x)^2+(-18*x^2*log(2)-2*x^5-18*x^3-6*x^2)*log(x)+81*log
(2)^2+(18*x^3+162*x)*log(2)+x^6+18*x^4+9*x^3+78*x^2+27*x)*exp(-3/(x^2*log(
x)-9*log(2)-x^3-9*x))-x^4*log(x)^3+(18*x^2*log(2)+2*x^5+x^4+18*x^3)*log(x)
^2+(-81*log(2)^2+(-18*x^3-18*x^2-162*x)*log(2)-x^6-2*x^5-18*x^4-18*x^3-81*
x^2)*log(x)+81*log(2)^2+(18*x^3+162*x)*log(2)+x^6+18*x^4+81*x^2)/(x^6*log(
x)^2+(-18*x^4*log(2)-2*x^7-18*x^5)*log(x)+81*x^2*log(2)^2+(18*x^5+162*x^3)
*log(2)+x^8+18*x^6+81*x^4),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2Test file number 362Integral number in file 1629**Maxima [F(-2)]**

Exception generated.

$$\int \frac{e^{\frac{1}{2}(-1-10x)}(-17-85x) + e^x(-3x^2 + e^{\frac{1}{2}(-1-10x)}(3+18x))}{3e^{-1-10x} - 6e^{\frac{1}{2}(-1-10x)}x + 3x^2} dx$$

= Exception raised: RuntimeError

input

```
integrate((((18*x+3)*exp(-5*x-1/2)-3*x^2)*exp(x)+(-85*x-17)*exp(-5*x-1/2))
/(3*exp(-5*x-1/2)^2-6*x*exp(-5*x-1/2)+3*x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1793

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1250}{x \log(2x)}} (-2500 - 2500 \log(2x)) + e^{-\frac{2500}{x \log(2x)}} (2500 + 2500 \log(2x))}{x^2 \log^2(2x)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((2500*log(2*x)+2500)*exp(-1250/x/log(2*x))^2+(-2500*log(2*x)-2500)*exp(-1250/x/log(2*x)))/x^2/log(2*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2539

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{36+e^4+12x^2+x^4+e^2(-12-2x^2)}{16+\log(x)}} x}{256 + 32 \log(x) + \log^2(x)} \left(-105 + e^{36+e^4+12x^2+x^4+e^2(-12-2x^2)} (15 + 384x^2 - 64e^2x^2 + 64x^4) + (-7 - \dots) \right)$$

= Exception raised: RuntimeError

input

```
integrate(((((-4*x^2*exp(2)+4*x^4+24*x^2+1)*exp(exp(2)^2+(-2*x^2-12)*exp(2)+x^4+12*x^2+36)-7)*log(x)+(-64*x^2*exp(2)+64*x^4+384*x^2+15)*exp(exp(2)^2+(-2*x^2-12)*exp(2)+x^4+12*x^2+36)-105)*exp((x*exp(exp(2)^2+(-2*x^2-12)*exp(2)+x^4+12*x^2+36)-7*x)/(16+log(x)))/(log(x)^2+32*log(x)+256),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2649

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4\log(x)}} \left(-e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} x^5 - x^6 - x^7 + \left(e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} \right) \right)}{\dots} dx$$

= Exception raised: RuntimeError

input

```
integrate(1/4*(((16*x^8+96*x^7+32*x^6-352*x^5-1760*x^3-800*x^2+12000*x-100
00)*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+440*x^3+100*x^2-1000*x+625)/x^4)+8*
x^6+4*x^5)*log(x)^2+(x^5*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+440*x^3+100*x^
2-1000*x+625)/x^4)+x^7+x^6)*log(x)-x^5*exp((x^8+8*x^7+4*x^6-88*x^5-71*x^4+
440*x^3+100*x^2-1000*x+625)/x^4)-x^7-x^6)*exp(1/4*x/log(x))/x^5/log(x)^2,x
, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2688

Maxima [F(-2)]

Exception generated.

$$\int \frac{(3 + 12x^2) \log^2(x) + e^{\frac{4+4x \log(x)}{x \log(x)}} (-80x - 80x \log(x) + 60x^2 \log^2(x)) + e^{\frac{2(4+4x \log(x))}{x \log(x)}} (-200x - 200x \log(x))}{\log^2(x)}$$

= Exception raised: RuntimeError

input `integrate(((75*x^2*log(x)^2-200*x*log(x)-200*x)*exp((4*x*log(x)+4)/x/log(x))^2+(60*x^2*log(x)^2-80*x*log(x)-80*x)*exp((4*x*log(x)+4)/x/log(x))+(12*x^2+3)*log(x)^2)/log(x)^2,x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2709

Maxima [F(-2)]

Exception generated.

$$\int \frac{-10x + e^{3/4}x - x^4 + (50 - 50x^3 - x^6 + e^{3/4}(-5 + 4x^3)) \log(x) + (-20x + 2e^{3/4}x + x^4) \log(x) \log(\log(x))}{(25x^2 - 10x^5 + x^8) \log(x) + (-10x^3 + 2x^6) \log(x) \log(\log(x)) + x^4 \log(x) \log^2(\log(x))}$$

input `integrate(((2*x*exp(3/4)+x^4-20*x)*log(x)*log(log(x))+((4*x^3-5)*exp(3/4)-x^6-50*x^3+50)*log(x)+x*exp(3/4)-x^4-10*x)/(x^4*log(x)*log(log(x))^2+(2*x^6-10*x^3)*log(x)*log(log(x))+(x^8-10*x^5+25*x^2)*log(x)),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.`

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 221

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-x + \frac{e^{-x}(2e^x + 5x)}{\log(-3+2x)}} (100e^x + 250x + (375 - 625x + 250x^2) \log(-3 + 2x))}{(-3 + 2x) \log^2(-3 + 2x)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((250*x^2-625*x+375)*log(-3+2*x)+100*exp(x)+250*x)*exp((2*exp(x)+5*x)/exp(x)/log(-3+2*x))/(-3+2*x)/exp(x)/log(-3+2*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 237

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3e^{x^2}}{\log((4-x)\log(x))}} \left(e^{x^2} (60 - 15x) \log(4) - 15e^{x^2} x \log(4) \log(x) + e^{x^2} (-120x^2 + 30x^3) \log(4) \log(x) \log((4-x)\log(x)) \right)}{(-4x + x^2) \log(x) \log^2((4-x)\log(x))} dx$$

= Exception raised: RuntimeError

input

```
integrate((2*(30*x^3-120*x^2)*log(2)*exp(x^2)*log(x)*log((-x+4)*log(x))-30*x*log(2)*exp(x^2)*log(x)+2*(-15*x+60)*log(2)*exp(x^2))*exp(3*exp(x^2)/log((-x+4)*log(x)))/(x^2-4*x)/log(x)/log((-x+4)*log(x))^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 303

Maxima [F(-2)]

Exception generated.

$$\int \frac{400 - 1200x + 900x^2}{1600 - 3200x - 800x^2 + 2400x^3 + 900x^4 + e^{2e^5} (4x^2 - 12x^3 + 9x^4) + e^{\frac{2x^2}{-2+3x}} (4x^2 - 12x^3 + 9x^4) + e^{\frac{-x}{-2+3x}} (4x^2 - 12x^3 + 9x^4)} dx$$

= Exception raised: RuntimeError

input

```
integrate((( -15*x^4+20*x^3)*exp(x^2/(-2+3*x))+900*x^2-1200*x+400)/((9*x^4-
12*x^3+4*x^2)*exp(exp(5))^2+((18*x^4-24*x^3+8*x^2)*exp(x^2/(-2+3*x))+180*x
^4+120*x^3-400*x^2+160*x)*exp(exp(5))+(9*x^4-12*x^3+4*x^2)*exp(x^2/(-2+3*x
))^2+(180*x^4+120*x^3-400*x^2+160*x)*exp(x^2/(-2+3*x))+900*x^4+2400*x^3-80
0*x^2-3200*x+1600),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 376

Maxima [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{3x}{\log(\log(x))}} (-3 + 3 \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: RuntimeError

input `integrate(((3*log(x)*log(log(x))-3)*exp(3/2*x/log(log(x))))^2+log(x)*log(log(x))^2)/log(x)/log(log(x))^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 406

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{e^x}{\log(-9+x)}} (e^x x + e^x (9x - x^2) \log(-9 + x) + (9 - x) \log^2(-9 + x))}{(-45x^2 + 5x^3 + e(-9x^2 + x^3)) \log^2(-9 + x)} dx$$

= Exception raised: RuntimeError

input `integrate(((9-x)*log(x-9)^2+(-x^2+9*x)*exp(x)*log(x-9)+exp(x)*x)*exp(-exp(x)/log(x-9))/((x^3-9*x^2)*exp(1)+5*x^3-45*x^2)/log(x-9)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 530

Maxima [F(-2)]

Exception generated.

$$\int \frac{-16x + (-4 - 4x) \log(3) + e^x(16 + 8 \log(3))}{-4x^2 + (3x - e^{5/3}x - x^2) \log(3) + e^x(4x + (-3 + e^{5/3} + x) \log(3)) + (e^x \log(3) - x \log(3)) \log(-e^x +$$

input

```
integrate(((8*log(3)+16)*exp(x)+(-4-4*x)*log(3)-16*x)/((log(3)*exp(x)-x*log(3))*log(x-exp(x))+((exp(5/3)+x-3)*log(3)+4*x)*exp(x)+(-x*exp(5/3)-x^2+3*x)*log(3)-4*x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 604

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-8+x-2\log(x)+10x\log(4-2x-\log(5))}{2x\log(4-2x-\log(5))}} (8x - x^2 + (-12 + 6x + 3 \log(5)) \log(4 - 2x - \log(5)) + \log(x)(2x + (-4 + (-4x^2 + 2x^3 + x^2 \log(5)) \log^2(4 - 2x - \log(5))))$$

= Exception raised: RuntimeError

input

```
integrate((((log(5)+2*x-4)*log(-log(5)+4-2*x)+2*x)*log(x)+(3*log(5)+6*x-12)*log(-log(5)+4-2*x)-x^2+8*x)*exp(1/2*(-2*log(x)+10*x*log(-log(5)+4-2*x)-8+x)/x/log(-log(5)+4-2*x))/(x^2*log(5)+2*x^3-4*x^2)/log(-log(5)+4-2*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 634

Maxima [F(-2)]

Exception generated.

$$\int \frac{(-3+x)\log(3-x) + \frac{e^{e^{e^5}} + \frac{e^{e^{e^5}}(e^3+x)}{\log(3-x)}}{\log(3-x)} (-e^3x-x^2+(-3x+x^2)\log(3-x))}{(-3x+x^2)\log(3-x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((((x^2-3*x)*log(3-x)-x*exp(3)-x^2)*exp(-log(log(3-x))+exp(exp(5)))
)*exp((exp(3)+x)*exp(-log(log(3-x))+exp(exp(5))))+(-3+x)*log(3-x))/(x^2-3
*x)/log(3-x),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 772

Maxima [F(-2)]

Exception generated.

$$\int \frac{-2125x^2 + 11750x^3 - 13125x^4 - 9000x^5 + 5625x^2 - 46500x^3 + 131350x^4 - 136700x^5 + 18025x^6 + 28200x^7 + 3600x^8 + e^{\frac{2x}{-1+3x}}(9 - 78x + 241x^2)}{(-144x^4 - 312x^3 + 241x^2 - 78x + 9) \exp(x/(-1+3x))^2 + (-1440x^6 - 4080x^5 + 13190x^4 - 11270x^3 + 3810x^2 - 450x) \exp(x/(-1+3x)) + 3600x^8 + 28200x^7 + 18025x^6 - 136700x^5 + 131350x^4 - 46500x^3 + 5625x^2}$$

= Exception raised: RuntimeError

input

```
integrate(((575*x^2-375*x+75)*exp(x/(-1+3*x))-9000*x^5-13125*x^4+11750*x^3
-2125*x^2)/((144*x^4-312*x^3+241*x^2-78*x+9)*exp(x/(-1+3*x))^2+(-1440*x^6-
4080*x^5+13190*x^4-11270*x^3+3810*x^2-450*x)*exp(x/(-1+3*x))+3600*x^8+2820
0*x^7+18025*x^6-136700*x^5+131350*x^4-46500*x^3+5625*x^2),x, algorithm="ma
xima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 945

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{16}(54 + 3e^2 - 54x - 18x^2 - 12ex^2 - 18x^3) + e^{16-\frac{x}{2}}(36 + e^2(6 - 3x) - 36x - 12x^2 - 15ex^2)}{9 + e^4 + 4e^3x + 6x^2 + x^4 + e^2(6 + 6x^2) + e(12x + 4x^3) + e^{2x}(9 + 6x^2 + x^4) + e^{3x/2}(36 + 24x^2 + 4x^4)}$$

input

```
integrate((( -3*x^3-3*x^2-9*x+9)*exp(16-x)*exp(1/2*x)^4+(-3*x^2*exp(1)-12*x^3-12*x^2-36*x+36)*exp(16-x)*exp(1/2*x)^3+(3*exp(1)^2-12*x^2*exp(1)-18*x^3-18*x^2-54*x+54)*exp(16-x)*exp(1/2*x)^2+((-3*x+6)*exp(1)^2-15*x^2*exp(1)-12*x^3-12*x^2-36*x+36)*exp(16-x)*exp(1/2*x)+((-3*x+3)*exp(1)^2-6*x^2*exp(1)-3*x^3-3*x^2-9*x+9)*exp(16-x))/((x^4+6*x^2+9)*exp(1/2*x)^4+((4*x^3+12*x)*exp(1)+4*x^4+24*x^2+36)*exp(1/2*x)^3+((6*x^2+6)*exp(1)^2+(12*x^3+36*x)*exp(1)+6*x^4+36*x^2+54)*exp(1/2*x)^2+(4*x*exp(1)^3+(12*x^2+12)*exp(1)^2+(12*x^3+36*x)*exp(1)+4*x^4+24*x^2+36)*exp(1/2*x)+exp(1)^4+4*x*exp(1)^3+(6*x^2+6)*exp(1)^2+(4*x^3+12*x)*exp(1)+x^4+6*x^2+9),x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 964

Maxima [F(-2)]

Exception generated.

$$\int e^{-2x+e^{-2x}(x^5+2x^4 \log(5)+x^3 \log^2(5)+e^x(-2x^3-2x^2 \log(5)) \log(x)+e^{2x}x \log^2(x)+(e^x(-2x^3-2x^2 \log(5))+2e^{2x}x \log(x)) \log(-\frac{\log(x)}{-2+x})+e^{2x}x \log^2(x))} dx$$

= Exception raised: RuntimeError

input

```
integrate(((2+x)*exp(x)^2*log(x)*log(-log(x)/(-2+x))^2+((2*x-4)*exp(x)^2*log(x)^2+(-4*exp(x)^2+((2*x^3-8*x^2+8*x)*log(5)+2*x^4-10*x^3+12*x^2)*exp(x)))*log(x)+(2*x-4)*exp(x)^2*log(-log(x)/(-2+x))+(-2+x)*exp(x)^2*log(x)^3+(-4*exp(x)^2+((2*x^3-8*x^2+8*x)*log(5)+2*x^4-10*x^3+12*x^2)*exp(x))*log(x)^2+((2*x-4)*exp(x)^2+(4*x*log(5)+4*x^2)*exp(x)+(-2*x^4+7*x^3-6*x^2)*log(5)^2+(-4*x^5+16*x^4-16*x^3)*log(5)-2*x^6+9*x^5-10*x^4)*log(x)+((-2*x^2+4*x)*log(5)-2*x^3+4*x^2)*exp(x))*exp((x*exp(x)^2*log(-log(x)/(-2+x))^2+(2*x*exp(x)^2*log(x)+(-2*x^2*log(5)-2*x^3)*exp(x))*log(-log(x)/(-2+x))+x*exp(x)^2*log(x)^2+(-2*x^2*log(5)-2*x^3)*exp(x)*log(x)+x^3*log(5)^2+2*x^4*log(5)+x^5)/exp(x)^2)/(-2+x)/exp(x)^2/log(x),x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1076

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{e^{2/x}x-x \log(3x^4-6x^2 \log(6)+3 \log^2(6))}{\log(3x^4-6x^2 \log(6)+3 \log^2(6))}} (4e^{2/x}x^3 + e^{2/x}(2x^2 - x^3 + (-2 + x) \log(6))) \log(3x^4 - 6x^2 \log(6) + 3 \log^2(6)) dx$$

$(-x^3 + x \log(6)) \log^2(3x^4 - 6x^2 \log(6) + 3 \log^2(6))$

input

```
integrate((-x*log(6)+x^3)*log(3*log(6)^2-6*x^2*log(6)+3*x^4)^2+((-2+x)*log(6)-x^3+2*x^2)*exp(2/x)*log(3*log(6)^2-6*x^2*log(6)+3*x^4)+4*x^3*exp(2/x))*exp((-x*log(3*log(6)^2-6*x^2*log(6)+3*x^4)+x*exp(2/x))/log(3*log(6)^2-6*x^2*log(6)+3*x^4))/(x*log(6)-x^3)/log(3*log(6)^2-6*x^2*log(6)+3*x^4)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1116

Maxima [F(-2)]

Exception generated.

$$\int \frac{-6 - 2\sqrt[5]{e} + \sqrt[5]{e} \log(-x)}{-864 + 432\sqrt[5]{e} \log(-x) - 72e^{2/5} \log^2(-x) + 4e^{3/5} \log^3(-x)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((exp(1/5)*log(-x)-2*exp(1/5)-6)/(4*exp(1/5)^3*log(-x)^3-72*exp(1/5)^2*log(-x)^2+432*exp(1/5)*log(-x)-864),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1400

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{12}{(-15+20x)\log(x\log^2(2))}} (72 - 96x - 96x \log(x\log^2(2)))}{(45x - 120x^2 + 80x^3) \log^2(x\log^2(2))} dx$$

= Exception raised: RuntimeError

input `integrate((-96*x*log(x*log(2)^2)-96*x+72)*exp(12/(20*x-15)/log(x*log(2)^2))/(80*x^3-120*x^2+45*x)/log(x*log(2)^2)^2,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1422

Maxima [F(-2)]

Exception generated.

$$\int \frac{25 + e^{\frac{1}{5}(-7+5x-2x^3)}(-25 + 25x - 30x^3)}{6 - 12e^{\frac{1}{5}(-7+5x-2x^3)} + 6e^{\frac{2}{5}(-7+5x-2x^3)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((((-30*x^3+25*x-25)*exp(-2/5*x^3+x-7/5)+25)/(6*exp(-2/5*x^3+x-7/5))^2-12*exp(-2/5*x^3+x-7/5)+6),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1424

Maxima [F(-2)]

Exception generated.

$$\int \frac{(-2x^2 + 2x \log(x)) \log^2(x - \log(x)) + e^{\frac{2(x+(1+x) \log(x-\log(x)))}{\log(x-\log(x))}} (-2 + 2x + (-2x + 2 \log(x)) \log(x - \log(x)))}{1} dx$$

= Exception raised: RuntimeError

input

```
integrate((((2*log(x)-2*x)*log(x-log(x))^2+(2*log(x)-2*x)*log(x-log(x))+2*x-2)*exp(((1+x)*log(x-log(x))+x)/log(x-log(x)))^2+(((2-2*x)*log(x)+2*x^2+2*x)*log(x-log(x))^2+(-2*x*log(x)+2*x^2)*log(x-log(x))-2*x^2+2*x)*exp(((1+x)*log(x-log(x))+x)/log(x-log(x)))+(2*x*log(x)-2*x^2)*log(x-log(x))^2)/(log(x)-x)/log(x-log(x))^2,x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1553

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{x+(1-x-x^2) \log(e^{2x+2e^{3x}+e^{4x}+x})}{\log(e^{2x+2e^{3x}+e^{4x}+x)}} (-x - 2e^{2x}x - 6e^{3x}x - 4e^{4x}x + (e^{2x} + 2e^{3x} + e^{4x} + x) \log(e^{2x} + 2e^{3x} + e^{4x} + x)) \log^2(e^{2x} + 2e^{3x} + e^{4x} + x) dx$$

= Exception raised: RuntimeError

input

```
integrate(((((-1-2*x)*exp(2*x)^2+(-4*x-2)*exp(x)*exp(2*x)+(-1-2*x)*exp(x)^2-2*x^2-x)*log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)^2+(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)*log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)-4*x*exp(2*x)^2-6*x*exp(x)*exp(2*x)-2*x*exp(x)^2-x)*exp(((x^2-x+1)*log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)/log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)))/(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)/log(exp(2*x)^2+2*exp(x)*exp(2*x)+exp(x)^2+x)^2,x, algorithm="maxima")
```


output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0 which is not of the expected type LIST
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 1557
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{80 + 200x + 125x^2 - 48x^3 - 240x^4 - 225x^5 + 72x^7 + 135x^8 - 27x^{11} + e^3(125 - 225x^3 + 135x^6 - 27x^9 - 125x + 225x^4 - 135x^7 + 27x^{10})}{-125x + 225x^4 - 135x^7 + 27x^{10}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((( -54*x^11+270*x^8-144*x^7-450*x^5+120*x^4+288*x^3+250*x^2+200*x
)*log(3*x)+(-27*x^9+135*x^6-225*x^3+125)*exp(3)-27*x^11+135*x^8+72*x^7-225
*x^5-240*x^4-48*x^3+125*x^2+200*x+80)/(27*x^10-135*x^7+225*x^4-125*x),x, a
lgorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 1704
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x-x^3 \log(x)}{\log^2(x)}} (2 + (-1 - x^2) \log(x) + 3x^2 \log^2(x))}{\log^3(x)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((3*x^2*log(x)^2+(-x^2-1)*log(x)+2)*exp((-x^3*log(x)+x)/log(x)^2)/log(x)^3,x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1742

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-e+\log(3)}{-20-x+x\log(x)}} (e - \log(3)) \log(x)}{400 + 40x + x^2 + (-40x - 2x^2) \log(x) + x^2 \log^2(x)} dx$$

= Exception raised: RuntimeError

input `integrate((-log(3)+exp(1))*log(x)*exp((log(3)-exp(1))/(x*log(x)-x-20))/(x^2*log(x)^2+(-2*x^2-40*x)*log(x)+x^2+40*x+400),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1758

Maxima [F(-2)]

Exception generated.

$$\int \frac{x^{-1-\frac{1}{\log(\log(x))}} (e^{2+x} - e^{2+x} \log(\log(x)) + e^{2+x} x \log^2(\log(x)))}{\log^2(\log(x))} dx$$

= Exception raised: RuntimeError

input `integrate((x*exp(2)*exp(x)*log(log(x))^2-exp(2)*exp(x)*log(log(x))+exp(2)*exp(x))/x/log(log(x))^2/exp(log(x)/log(log(x))),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1816

Maxima [F(-2)]

Exception generated.

$$\int \frac{-4 + 100e^{2/5} + 12x^2 - 2x^3 + \sqrt[5]{e}(-80x + 10x^2) + e^x(-1 + x + 2x^2 - 2x^3 - x^4 + x^5 + e^{4/5}(-625 + 625x^2 + 625e^{4/5}x^2 - 500e^{3/5}x^3 - 2x^4 + x^6 + e^{2/5}x^7))}{x^2 + 625e^{4/5}x^2 - 500e^{3/5}x^3 - 2x^4 + x^6 + e^{2/5}x^7} dx$$

input `integrate((((625*x-625)*exp(1/5)^4+(-500*x^2+500*x)*exp(1/5)^3+(150*x^3-150*x^2-50*x+50)*exp(1/5)^2+(-20*x^4+20*x^3+20*x^2-20*x)*exp(1/5)+x^5-x^4-2*x^3+2*x^2+x-1)*exp(x)+100*exp(1/5)^2+(10*x^2-80*x)*exp(1/5)-2*x^3+12*x^2-4)/(625*x^2*exp(1/5)^4-500*x^3*exp(1/5)^3+(150*x^4-50*x^2)*exp(1/5)^2+(-20*x^5+20*x^3)*exp(1/5)+x^6-2*x^4+x^2),x, algorithm="maxima")`

output Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2133

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{e^{2x} + (-x+x^2) \log\left(\frac{1}{13}(65+5x \log(2))\right)}{\log\left(\frac{1}{13}(65+5x \log(2))\right)}} \frac{(-e^{2x} \log(2) + e^{2x}(26 + 2x \log(2)) \log\left(\frac{1}{13}(65 + 5x \log(2))\right)) + (-13 + 26x + (13 + x \log(2)) \log^2\left(\frac{1}{13}(65 + 5x \log(2))\right))}{(13 + x \log(2)) \log^2\left(\frac{1}{13}(65 + 5x \log(2))\right)}$$

= Exception raised: RuntimeError

input

```
integrate((((2*x^2-x)*log(2)+26*x-13)*log(5/13*x*log(2)+5)^2+(2*x*log(2)+26)*exp(2*x)*log(5/13*x*log(2)+5)-log(2)*exp(2*x))*exp(((x^2-x)*log(5/13*x*log(2)+5)+exp(2*x))/log(5/13*x*log(2)+5))/(x*log(2)+13)/log(5/13*x*log(2)+5)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2239

Maxima [F(-2)]

Exception generated.

$$\int \frac{(600 - 160x - 136x^2 - 16x^3) \log^2(2x) + e^{\frac{x}{(40+8x) \log(2x)}} (-5x - x^2 + 5x \log(2x) + (200 + 80x + 8x^2) \log^2(2x))}{(200 + 80x + 8x^2) \log^2(2x)}$$

= Exception raised: RuntimeError

input

```
integrate((((8*x^2+80*x+200)*log(2*x)^2+5*x*log(2*x)-x^2-5*x)*exp(x/(8*x+40))/log(2*x))+(-16*x^3-136*x^2-160*x+600)*log(2*x)^2)/(8*x^2+80*x+200)/log(2*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0 which is not of the expected type LIST
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 2325
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{x^2} x + 5x^2 + e^{\frac{1-x^4}{x^2}} x^2 + \left(5x^2 + 2e^{x^2} x^3 + e^{\frac{1-x^4}{x^2}} (-2 + x^2 - 2x^4)\right) \log(x)}{x^2} dx$$

= Exception raised: RuntimeError

input

```
integrate(((2*x^3*exp(x^2)+(-2*x^4+x^2-2)*exp((-x^4+1)/x^2)+5*x^2)*log(x)+
exp(x^2)*x+x^2*exp((-x^4+1)/x^2)+5*x^2)/x^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> Encountered operator mismatch in maxima-
to-sr translation
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 2419
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{4e^{\frac{1}{6}(2+3x)} x^2 + e^{\frac{1}{12}(2+3x)} (-6x + x^2 + x^3) + e^{\frac{1}{12}(2+3x)} (8 - 14x - 2x^2) \log(x)}{16 - 16x + 4x^2 + 4e^{\frac{1}{6}(2+3x)} x^2 + e^{\frac{1}{12}(2+3x)} (-16x + 8x^2) + \left(32 - 16x - 16e^{\frac{1}{12}(2+3x)} x\right) \log(x) + 16 \log^2(x)}$$

= Exception raised: RuntimeError

input

```
integrate((( -2*x^2-14*x+8)*exp(1/4*x+1/6)*log(x)+4*x^2*exp(1/4*x+1/6)^2+(x^3+x^2-6*x)*exp(1/4*x+1/6))/(16*log(x)^2+(-16*x*exp(1/4*x+1/6)-16*x+32)*log(x)+4*x^2*exp(1/4*x+1/6)^2+(8*x^2-16*x)*exp(1/4*x+1/6)+4*x^2-16*x+16),x,
algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is undefined.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2609

Maxima [F(-2)]

Exception generated.

$$\int \frac{(6x + 12x^2 + 4x^3) \log^2(3x) + e^{\frac{2(-x^2+x^3)}{\log(3x)}} (6x^2 + 2x^3 - 6x^4 - 2x^5 + (-12x^2 + 2x^3 + 20x^4 + 6x^5) \log(3x))}{\log^2(3x)}$$

= Exception raised: RuntimeError

input

```
integrate((((3*x^2+8*x+3)*log(3*x)^2+(6*x^5+20*x^4+2*x^3-12*x^2)*log(3*x)-2*x^5-6*x^4+2*x^3+6*x^2)*exp((x^3-x^2)/log(3*x))^2+(4*x^3+12*x^2+6*x)*log(3*x)^2)/log(3*x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2617

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{x^4 \log(-3x+2x^5)}} (-45 + 150x^4 + (-180 + 120x^4) \log(-3x + 2x^5))}{(-3x^5 + 2x^9) \log^2(-3x + 2x^5)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((120*x^4-180)*log(2*x^5-3*x)+150*x^4-45)/(2*x^9-3*x^5)/log(2*x^5-3*x)^2/exp(5/x^4/log(2*x^5-3*x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2620

Maxima [F(-2)]

Exception generated.

$$\int \frac{-4 \log(5) \log^2\left(\frac{16}{x^2}\right) + e^{\frac{x}{\log\left(\frac{16}{x^2}\right)}} (8x - 8x^2 + (4x - 4x^2) \log\left(\frac{16}{x^2}\right) - 4 \log^2\left(\frac{16}{x^2}\right))}{3x^2 \log^2\left(\frac{16}{x^2}\right)} dx$$

= Exception raised: RuntimeError

input

```
integrate(1/3*((-4*log(16/x^2)^2+(-4*x^2+4*x)*log(16/x^2)-8*x^2+8*x)*exp(x/log(16/x^2))-4*log(5)*log(16/x^2)^2)/x^2/log(16/x^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2800

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x+x^2}{-2+e^{3/2}} \log(4+2x)} (-e^x x - x^3 + (-2x^2 - x^3 + e^x(-6 - x + x^2)) \log(4 + 2x)) \log(4 + 2x)}{(2x^4 + x^5) \log(-2 + e^{3/2}) \log^2(4 + 2x)} dx = \text{Exception raised:}$$

input

```
integrate((((x^2-x-6)*exp(x)-x^3-2*x^2)*log(4+2*x)-exp(x)*x-x^3)*exp((x^2+
exp(x))/x^3/log(4+2*x)/log(exp(3/2)-2))/(x^5+2*x^4)/log(4+2*x)^2/log(exp(3
/2)-2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2821

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{-400x^5+(2000x^4+400x^5) \log(x)} (-5 + 4x + (-20 - 5x) \log(x))}}{200x^7 + (-2000x^6 - 400x^7) \log(x) + (5000x^5 + 2000x^6 + 200x^7) \log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate((((-5*x-20)*log(x)+4*x-5)/((200*x^7+2000*x^6+5000*x^5)*log(x)^2+(
-400*x^7-2000*x^6)*log(x)+200*x^7)/exp(-1/((400*x^5+2000*x^4)*log(x)-400*x
^5)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```


input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2869

Maxima [F(-2)]

Exception generated.

$$\int \frac{4e^5 x^2 \log^2(x) + e^{\frac{3}{e^5 x^2 \log(x)}} \log(2 + e^2) (6 + 12 \log(x) - 4e^5 x^2 \log^2(x)) + e^{\frac{6}{e^5 x^2 \log(x)}} \log^2(2 + e^2) (-3 - 6 \log(x))}{2e^5 x \log^2(2 + e^2) \log^2(x)}$$

= Exception raised: RuntimeError

input

```
integrate(1/2*((x^2*log(x)^2*exp(5)-6*log(x)-3)*log(exp(2)+2)^2*exp(3/x^2/exp(5)/log(x))^2+(-4*x^2*log(x)^2*exp(5)+12*log(x)+6)*log(exp(2)+2)*exp(3/x^2/exp(5)/log(x))+4*x^2*log(x)^2*exp(5))/x/exp(5)/log(x)^2/log(exp(2)+2)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2893

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{2+\log(-18-2x+\log(4)+3\log(25))}} (-36 - 2x + 2\log(4) + 6\log(25) + (-18 - 2x + \log(4) + 3\log(25)))}{-72 - 8x + 4\log(4) + 12\log(25) + (-72 - 8x + 4\log(4) + 12\log(25)) \log(-18 - 2x + \log(4) + 3\log(25))}$$

= Exception raised: RuntimeError

input

```
integrate(((6*log(5)+2*log(2)-2*x-18)*log(6*log(5)+2*log(2)-2*x-18)+12*log
(5)+4*log(2)-2*x-36)*exp(x/(log(6*log(5)+2*log(2)-2*x-18)+2))/((6*log(5)+2
*log(2)-2*x-18)*log(6*log(5)+2*log(2)-2*x-18)^2+(24*log(5)+8*log(2)-8*x-72
)*log(6*log(5)+2*log(2)-2*x-18)+24*log(5)+8*log(2)-8*x-72),x, algorithm="m
axima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2900

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x}{\log(x)}} (-2x^2 + 2x^2 \log(x) + 2x \log^2(x) + e^{-30+2x-2x \log(2x)} (-2 + 2 \log(x) - 2 \log^2(x) \log(2x)) + e^{-15+x}}{5 \log^2(x)} dx$$

= Exception raised: RuntimeError

input

```
integrate(1/5*((-2*log(x)^2*log(2*x)+2*log(x)-2)*exp(-x*log(2*x)+x-15)^2+(
2*x*log(x)^2*log(2*x)-2*log(x)^2-4*x*log(x)+4*x)*exp(-x*log(2*x)+x-15)+2*x
*log(x)^2+2*x^2*log(x)-2*x^2)*exp(x/log(x))^2/log(x)^2,x, algorithm="maxim
a")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3+e^{10}(-x^2-x^3)}{-e^{10}x^2+e^{10}x^2 \log\left(\frac{x}{5\log(x)}\right)}}}{e^{10}x^3 \log(x) - 2e^{10}x^3 \log(x) \log\left(\frac{x}{5\log(x)}\right) + e^{10}x^3 \log(x) \log^2\left(\frac{x}{5\log(x)}\right)} \left(3 + e^{10}(-x^2 - x^3) + (3 + e^{10}(x^2 + 2x^3)) \log(x) + (-6 - e^{10}x^3) \log(x) \log\left(\frac{x}{5\log(x)}\right)\right)$$

= Exception raised: RuntimeError

input

```
integrate(((x^3*exp(5)^2-6)*log(x)*log(1/5*x/log(x)))+((2*x^3+x^2)*exp(5)^2+3)*log(x)+(-x^3-x^2)*exp(5)^2+3)*exp(((x^3-x^2)*exp(5)^2+3)/(x^2*exp(5)^2*log(1/5*x/log(x))-x^2*exp(5)^2))/(x^3*exp(5)^2*log(x)*log(1/5*x/log(x))^2-2*x^3*exp(5)^2*log(x)*log(1/5*x/log(x))+x^3*exp(5)^2*log(x)),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 11

Maxima [F(-2)]

Exception generated.

$$\int \frac{240 - 320x^4 + e^{2/3}(-5x^2 + 20x^6)}{-256x + 128x^5 - 16x^9 + e^{2/3}(16x^3 - 8x^7 + x^{11}) + (-128x + 32x^5 + e^{2/3}(8x^3 - 2x^7)) \log\left(-\frac{x^3}{-16+e^{2/3}x}\right)}$$

input

```
integrate(((20*x^6-5*x^2)*exp(2/3)-320*x^4+240)/((x^3*exp(2/3)-16*x)*log(-x^3/(x^2*exp(2/3)-16))^2+((-2*x^7+8*x^3)*exp(2/3)+32*x^5-128*x)*log(-x^3/(x^2*exp(2/3)-16)))+(x^11-8*x^7+16*x^3)*exp(2/3)-16*x^9+128*x^5-256*x),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 132

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{-9+2x \log(3+e^x+4x^2)}{x \log(3+e^x+4x^2)}} \frac{(9e^x x + 72x^2 + (27 + 9e^x + 36x^2) \log(3 + e^x + 4x^2))}{(3x^2 + e^x x^2 + 4x^4) \log^2(3 + e^x + 4x^2)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((9*exp(x)+36*x^2+27)*log(exp(x)+4*x^2+3)+9*exp(x)*x+72*x^2)*exp
((2*x*log(exp(x)+4*x^2+3)-9)/x/log(exp(x)+4*x^2+3))/(exp(x)*x^2+4*x^4+3*x^
2)/log(exp(x)+4*x^2+3)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 332

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{-2x} \left(e^{2x} (-2x + x^2) \log^2(2 - x) + e^{\frac{9+3x}{\log(2-x)}} (-18 - 6x + (-12 + 6x) \log(2 - x) + (8 - 4x) \log^2(2 - x) \right)}{(-4 + 2x) \log^2(2 - x)}$$

= Exception raised: RuntimeError

input

```
integrate(((((-4*x+8)*log(2-x)^2+(6*x-12)*log(2-x)-6*x-18)*exp(1/2*(3*x+9)/log(2-x))^2+((2*x^2-6*x+4)*exp(x)*log(2-x)^2+(-3*x^2+6*x)*exp(x)*log(2-x)+(3*x^2+9*x)*exp(x))*exp(1/2*(3*x+9)/log(2-x)))+(x^2-2*x)*exp(x)^2*log(2-x)^2)/(2*x-4)/exp(x)^2/log(2-x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 345

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9+123x+30x^2}{10 \log\left(\frac{2+x^2}{x}\right)}} \left(18 + 246x + 51x^2 - 123x^3 - 30x^4 + (246x + 120x^2 + 123x^3 + 60x^4) \log\left(\frac{2+x^2}{x}\right) + (20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right) \right)}{(20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)}$$

= Exception raised: RuntimeError

input

```
integrate((((10*x^2+20)*log((x^2+2)/x))^2+(60*x^4+123*x^3+120*x^2+246*x)*log((x^2+2)/x)-30*x^4-123*x^3+51*x^2+246*x+18)*exp(1/10*(30*x^2+123*x+9)/log((x^2+2)/x))/(10*x^2+20)/log((x^2+2)/x)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 541

Maxima [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-x+\log(x)}{(5+e^x)\log(\log(25x^2))}} (10x \log(2) + 2e^x x \log(2) + (-10 \log(2) - 2e^x \log(2)) \log(x) + ((5 - 5x) \log(2) + e^x (10 \log(2) - 2e^x \log(2))) \log(x) + ((5 - 5x) \log(2) + e^x (10 \log(2) - 2e^x \log(2))) \log(x) + ((5 - 5x) \log(2) + e^x (10 \log(2) - 2e^x \log(2))) \log(x))}{(25x + 10e^x x + e^{2x} x) \log(25x^2) \log^2(\log(25x^2))} dx$$

= Exception raised: RuntimeError

input

```
integrate(((x*log(2)*exp(x)*log(x)+(x^2-x+1)*log(2)*exp(x)+(-5*x+5)*log(2)))*log(25*x^2)*log(log(25*x^2))+(-2*exp(x)*log(2)-10*log(2))*log(x)+2*x*log(2)*exp(x)+10*x*log(2))*exp((log(x)-x)/(exp(x)+5)/log(log(25*x^2)))/(x*exp(x)^2+10*exp(x)*x+25*x)/log(25*x^2)/log(log(25*x^2))^2,x, algorithm="maxima")
```

output

Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{16x-81x^2-24e^{\frac{1}{5}(5x+\log(5))}x^2+9e^{\frac{2}{5}(5x+\log(5))}x^3}{16-24e^{\frac{1}{5}(5x+\log(5))}x+9e^{\frac{2}{5}(5x+\log(5))}x^2}} \left(-64 + 648x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3 + e^{\frac{1}{5}(5x+\log(5))} \right) dx$$

= Exception raised: RuntimeError

input

```
integrate((27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+(486*x^3+144*x)*exp(1/5*log(5)+x)+648*x-64)*exp((9*x^3*exp(1/5*log(5)+x)^2-24*x^2*exp(1/5*log(5)+x)-81*x^2+16*x)/(9*x^2*exp(1/5*log(5)+x)^2-24*x*exp(1/5*log(5)+x)+16))/(27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+144*x*exp(1/5*log(5)+x)-64),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 667

Maxima [**F(-2)**]

Exception generated.

$$\int \frac{e^5 \left(3x - \frac{(-15+3x) \log(3+\log(x))}{e^5} \right)}{\log(3+\log(x))} \left(-3 + (9 + 3 \log(x)) \log(3 + \log(x)) - \frac{(9+3 \log(x)) \log^2(3+\log(x))}{e^5} \right)}{(3 + \log(x)) \log^2(3 + \log(x))} dx$$

= Exception raised: RuntimeError

input

```
integrate(((3*log(x)+9)*log(3+log(x))*exp(log(-log(3+log(x))))-5)+(3*log(x)+9)*log(3+log(x))-3)*exp(((3*x-15)*exp(log(-log(3+log(x))))-5)+3*x)/exp(log(-log(3+log(x))))-5))/(3+log(x))/log(3+log(x))/exp(log(-log(3+log(x))))-5),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 697

Maxima [F(-2)]

Exception generated.

$$\int \frac{-50x - 20e^4x - 2e^8x + (-20x - 4e^4x) \log(x) - 2x \log^2(x) + e^{\frac{x^3+x^2 \log(4)}{5+e^4+\log(x)}} (25 + e^8 + 14x^3 + e^4(10 + 3x^3))}{25 + 10e^4 + e^8 + (10 + 2e^4) \log(x) + \dots} dx$$

= Exception raised: RuntimeError

```
input integrate(((log(x)^2+(4*x^2*log(2)+2*exp(4)+3*x^3+10)*log(x)+2*(2*x^2*exp(4)+9*x^2)*log(2)+exp(4)^2+(3*x^3+10)*exp(4)+14*x^3+25)*exp((2*x^2*log(2)+x^3)/(log(x)+5+exp(4)))-2*x*log(x)^2+(-4*x*exp(4)-20*x)*log(x)-2*x*exp(4)^2-20*x*exp(4)-50*x)/(log(x)^2+(2*exp(4)+10)*log(x)+exp(4)^2+10*exp(4)+25),x, algorithm="maxima")
```

```
output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```

input file name test_cases/extra_tests/364_Hebisch_4
Test file number 364
Integral number in file 749

Maxima [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5x) \log^2(e^{10} - 2e^5x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5x + x^2)}} (8x^3 + (12e^5x^2 - 12x^3) \log(e^{10} - 2e^5x + x^2))}{(e^{10} - e^5x) \log^2(e^{10} - 2e^5x + x^2)} dx$$

= Exception raised: RuntimeError

```
input integrate((((12*x^2*exp(5)-12*x^3)*log(exp(5)^2-2*x*exp(5)+x^2)+8*x^3)*exp(4*x^3/exp(5)/log(exp(5)^2-2*x*exp(5)+x^2))+(exp(5)^2-x*exp(5))*log(exp(5)^2-2*x*exp(5)+x^2)^2)/(exp(5)^2-x*exp(5))/log(exp(5)^2-2*x*exp(5)+x^2)^2,x, algorithm="maxima")
```

```
output Exception raised: RuntimeError >> ECL says: In function CAR, the value of the first argument is 0 which is not of the expected type LIST
```


input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{-e^{2-2x}x^2 + e^{1-x+\frac{1}{4}(4+\log(4))}(-5+5x-2x^2) + e^{\frac{1}{2}(4+\log(4))}(-5-x^2)}{e^{2-2x}x^2 + e^{\frac{1}{2}(4+\log(4))}x^2 + 2e^{1-x+\frac{1}{4}(4+\log(4))}x^2} dx$$

= Exception raised: RuntimeError

input

```
integrate(((x^2-5)*exp(1+1/2*log(2))^2+(-2*x^2+5*x-5)*exp(1-x)*exp(1+1/2*log(2))-x^2*exp(1-x)^2)/(x^2*exp(1+1/2*log(2))^2+2*x^2*exp(1-x)*exp(1+1/2*log(2))+x^2*exp(1-x)^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un defined.
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 911

Maxima [F(-2)]

Exception generated.

$$\int e^{\frac{3x^2+5x^3+2x^4}{(4+8x)\log(x^2)}} \frac{(-6x^2 - 22x^3 - 24x^4 - 8x^5 + (6x^2 + 21x^3 + 28x^4 + 12x^5)\log(x^2) + (-8 - 32x - 32x^2)\log(x^2))}{(4x^3 + 16x^4 + 16x^5)\log^2(x^2)} dx$$

= Exception raised: RuntimeError

input

```
integrate(((32*x^2-32*x-8)*log(x^2)^2+(12*x^5+28*x^4+21*x^3+6*x^2)*log(x^2)-8*x^5-24*x^4-22*x^3-6*x^2)*exp((2*x^4+5*x^3+3*x^2)/(8*x+4)/log(x^2)))/(16*x^5+16*x^4+4*x^3)/log(x^2)^2,x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: In function CAR, the value of
the first argument is 0 which is not of the expected type LIST
```

```
input file name test_cases/extra_tests/364_Hebisch_4
```

```
Test file number 364
```

```
Integral number in file 947
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{10x + 2x^2 + 2\sqrt[3]{e}x^2 + 4e^{2/3}x^2 + (-10x - x^2 + \sqrt[3]{e}(-20x - 4x^2)) \log(x^2) + (25 + 10x + x^2) \log^2(x^2)}{4e^{2/3}x^2 + \sqrt[3]{e}(-20x - 4x^2) \log(x^2) + (25 + 10x + x^2) \log^2(x^2)} dx$$

input

```
integrate(((x^2+10*x+25)*log(x^2)^2+((-4*x^2-20*x)*exp(1/3)-x^2-10*x)*log(
x^2)+4*x^2*exp(1/3)^2+2*x^2*exp(1/3)+2*x^2+10*x)/((x^2+10*x+25)*log(x^2)^2
+(-4*x^2-20*x)*exp(1/3)*log(x^2)+4*x^2*exp(1/3)^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

```
input file name test_cases/extra_tests/364_Hebisch_4
```

```
Test file number 364
```

```
Integral number in file 962
```

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + bx + ax^2}} dx = \text{Exception raised: ValueError}$$

input

```
integrate(1/(a*x^2+b*x+c)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for
more deta
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 428

Maxima [F(-2)]

Exception generated.

$$\int \frac{-b + ax^2}{(b + cx + ax^2)\sqrt{bx + ax^3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*x^2-b)/(a*x^2+c*x+b)/(a*x^3+b*x)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(c^2-4*a*b>0)', see `assume?` for
more deta
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 451

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - x^2}{\sqrt{x(-a+x)(-b+x)}(ab - (a+b+d)x + x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*b-x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*b-(a+b+d)*x+x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d+b+a)^2-4*a*b>0)', see `assume?` for mor
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 471

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - x^2}{\sqrt{x(-a+x)(-b+x)}(abd - (1 + ad + bd)x + dx^2)} dx$$

= Exception raised: ValueError

input

```
integrate((a*b-x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*b*d-(a*d+b*d+1)*x+d*x^2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((b*d+a*d+1)^2>0)', see `assume?` for more
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 472

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - 2ax + x^2}{\sqrt{x(-a+x)(-b+x)}(ad - (b+d)x + x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*b-2*a*x+x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a*d-(b+d)*x+x^2),x, alg
orithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((d+b)^2-4*a*d>0)', see `assume?`
for more
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 566

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab - 2ax + x^2}{\sqrt{x(-a+x)(-b+x)}(a - (1+bd)x + dx^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((a*b-2*a*x+x^2)/(x*(-a+x)*(-b+x))^(1/2)/(a-(b*d+1)*x+d*x^2),x, a
lgorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume((b*d+1)^2-4*a*d>0)', see `assume
?` for mor
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 567

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - 2x + k^2 x^2}{\sqrt{(1-x)x(1-k^2x)}(-1+2x+(-2+k^2)x^2)} dx = \text{Exception raised: ValueError}$$

input

```
integrate((k^2*x^2-2*x+1)/((1-x)*x*(-k^2*x+1))^(1/2)/(-1+2*x+(k^2-2)*x^2),
x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(k-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 699

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - 2x + k^2 x^2}{(-1 + 2x - 2x^2 + k^2 x^2) \sqrt{x - x^2 - k^2 x^2 + k^2 x^3}} dx = \text{Exception raised: ValueError}$$

input

```
integrate((k^2*x^2-2*x+1)/(k^2*x^2-2*x^2+2*x-1)/(k^2*x^3-k^2*x^2-x^2+x)^(1
/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(k-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 702

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{1 - x^2 - y^4} dx = \text{Exception raised: ValueError}$$

input

```
integrate((-y^4-x^2+1)^(1/2),x, algorithm="maxima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(y-1>0)', see `assume?` for more
details)Is
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 734

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab + ac - bc - 2ax + x^2}{\sqrt{(-a + x)(-b + x)(-c + x)}(bc + ad - (b + c + d)x + x^2)} dx$$

= Exception raised: ValueError

input `integrate((a*b+a*c-2*a*x-b*c+x^2)/((-a+x)*(-b+x)*(-c+x))^(1/2)/(b*c+a*d-(b+c+d)*x+x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((d+c+b)^2>0)', see `assume?` for more deta

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 775

Maxima [F(-2)]

Exception generated.

$$\int \frac{ab + ac - bc - 2ax + x^2}{\sqrt{(-a+x)(-b+x)(-c+x)}(a + bcd - (1 + bd + cd)x + dx^2)} dx$$

= Exception raised: ValueError

input `integrate((a*b+a*c-2*a*x-b*c+x^2)/((-a+x)*(-b+x)*(-c+x))^(1/2)/(a+b*c*d-(b*d+c*d+1)*x+d*x^2),x, algorithm="maxima")`

output Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume((c*d+b*d+1)^2>0)', see `assume?` for more

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 776

Maxima [F(-2)]

Exception generated.

$$\int \frac{-b + a^2x^2}{(b + 2abx + a^2x^2)\sqrt{bx + a^2x^3}} dx = \text{Exception raised: ValueError}$$

input `integrate((a^2*x^2-b)/(a^2*x^2+2*a*b*x+b)/(a^2*x^3+b*x)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-1>0)', see `assume?` for more details)Is`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 780

Maxima [F(-2)]

Exception generated.

$$\int \sqrt{c + bx + ax^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*x^2+b*x+c)^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 955

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + k^2 x^2}{\sqrt{(1-x)x(1-k^2x)}(a+bx+ak^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((k^2*x^2-1)/((1-x)*x*(-k^2*x+1))^(1/2)/(a*k^2*x^2+b*x+a),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(2*a*k-b>0)', see `assume?` for more detail`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 997

Maxima [F(-2)]

Exception generated.

$$\int \frac{-1 + kx^2}{(1 + ckx + kx^2) \sqrt{(1-x^2)(1-k^2x^2)}} dx = \text{Exception raised: ValueError}$$

input `integrate((k*x^2-1)/(c*k*x+k*x^2+1)/((-x^2+1)*(-k^2*x^2+1))^(1/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(c^2*k-4>0)', see `assume?` for more detail`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1388

Maxima [F(-2)]

Exception generated.

$$\int \frac{1 - x^5}{\sqrt{a + bx}(1 + x^5)} dx = \text{Exception raised: ValueError}$$

input `integrate((-x^5+1)/(b*x+a)^(1/2)/(x^5+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a-4*b>0)', see `assume?` for more detail`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1862

Maxima [F(-2)]

Exception generated.

$$\int \frac{-x + x^2}{\sqrt{(1-x)x(1-k^2x)}(1-2x+k^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((x^2-x)/((1-x)*x*(-k^2*x+1))^(1/2)/(k^2*x^2-2*x+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see `assume?` for more details)Is`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2367

Maxima [F(-2)]

Exception generated.

$$\int (c + bx + ax^2)^{5/2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*x^2+b*x+c)^(5/2),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2433

Maxima [F(-2)]

Exception generated.

$$\int \frac{-a - bx + (b + ak^2)x^2}{\sqrt{(1-x)x(1-k^2x)}(1-2x+k^2x^2)} dx = \text{Exception raised: ValueError}$$

input `integrate((-a-b*x+(a*k^2+b)*x^2)/((1-x)*x*(-k^2*x+1))^(1/2)/(k^2*x^2-2*x+1),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(k-1>0)', see `assume?` for more details)Is`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2848

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{c + bx} dx = \text{Exception raised: ValueError}$$

input `integrate((a*x^2+b*x+c)^(5/2)/(b*x+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2921

Maxima [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{(c + bx)^2} dx = \text{Exception raised: ValueError}$$

input `integrate((a*x^2+b*x+c)^(5/2)/(b*x+c)^2,x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*a*c-b^2>0)', see `assume?` for more deta`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2959

Maxima [F(-2)]

Exception generated.

$$\int \frac{1+x}{(1-ax)\sqrt[4]{\frac{1-bx}{c+x}}} dx = \text{Exception raised: ValueError}$$

input `integrate((1+x)/(-a*x+1)/((-b*x+1)/(c+x))^(1/4),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(b-a>0)', see `assume?` for more details)Is`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3012

Maxima [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c_4 + \sqrt{\frac{c_0+x c_1}{c_2+x c_3}} c_5 (c_6 + x c_7)^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(_C4+((C1*x+_C0)/(C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*x+_C6)^2, x, algorithm="maxima")`

output

```
Exception raised: RuntimeError >> ECL says: THROW: The catch RAT-ERR is un
defined.
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3137

Maxima [F(-2)]

Exception generated.

$$\int \frac{\sqrt[6]{\frac{1-bx}{c+x}}(1+dx^2)}{(1+bx)(1+cx)} dx = \text{Exception raised: ValueError}$$

input

```
integrate(((b*x+1)/(c+x))^(1/6)*(d*x^2+1)/(b*x+1)/(c*x+1),x, algorithm="m
axima")
```

output

```
Exception raised: ValueError >> Computation failed since Maxima requested
additional constraints; using the 'assume' command before evaluation *may*
help (example of legal syntax is 'assume(b*c-1>0)', see `assume?` for mor
e details)
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3138

Maxima [F(-2)]

Exception generated.

$$\int \frac{2b + ax^3}{x^4(c - 2b^2x^3 + ax^6)} dx = \text{Exception raised: ValueError}$$

input `integrate((a*x^3+2*b)/x^4/(a*x^6-2*b^2*x^3+c),x, algorithm="maxima")`

output `Exception raised: ValueError >> Computation failed since Maxima requested additional constraints; using the 'assume' command before evaluation *may* help (example of legal syntax is 'assume(4*b^4-4*a*c>0)', see `assume?` f or more de`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 24

Maxima [F(-2)]

Exception generated.

$$\int \frac{2x - 9x^9 + 2\sqrt{2}x^9 - 12x^{13} - 3x^{17}}{(\sqrt{2} - 3x^4 - x^8)^2 (-18 + 8\sqrt{2} - 24x^4 + 27\sqrt{2}x^4 - 8x^8 + 9\sqrt{2}x^8)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((2*x-9*x^9+2*2^(1/2)*x^9-12*x^13-3*x^17)/(2^(1/2)-3*x^4-x^8)^2/(-18+8*2^(1/2)-24*x^4+27*2^(1/2)*x^4-8*x^8+9*2^(1/2)*x^8),x, algorithm="maxima")`

output `Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 43

Maxima [F(-2)]

Exception generated.

$$\int \frac{-500 + 192\sqrt{7} + 952x + 360\sqrt{7}x + 672x^2 + 252\sqrt{7}x^2 + 196x^3 + 84\sqrt{7}x^3 + 49x^4}{(16 - 6\sqrt{7} + 14x + 6\sqrt{7}x + 7x^2)^2 (2\sqrt{7} + 630x + 238\sqrt{7}x + 147x^2 + 56\sqrt{7}x^2)} dx$$

= Exception raised: RuntimeError

input

```
integrate((-500+192*7^(1/2)+952*x+360*7^(1/2)*x+672*x^2+252*7^(1/2)*x^2+196*x^3+84*7^(1/2)*x^3+49*x^4)/(16-6*7^(1/2)+14*x+6*7^(1/2)*x+7*x^2)^2/(2*7^(1/2)+630*x+238*7^(1/2)*x+147*x^2+56*7^(1/2)*x^2),x, algorithm="maxima")
```

output

```
Exception raised: RuntimeError >> ECL says: expt: undefined: 0 to a negative exponent.
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 44

2.3 Giac Exceptions

Percentage of integrals which generated an exception is 5.917 %

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1 + x}}}{\sqrt{1 + x}(1 + x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1)/(1+x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/0_Independent_test_suites/2_Bondarenko_Problems

Test file number 2

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1 + x}}}{1 + x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Precision problem choosing root in common_EXT, current precision 14Precision problem choosing root in common_EXT, curr`

input file name test_cases/rubi_tests/0_Independent_test_suites/2_Bondarenko_Problems

Test file number 2

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{2} + \sqrt{x} + \sqrt{2 + 2\sqrt{2}\sqrt{x} + 2x}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((2^(1/2)+x^(1/2)+(2+2*x+2*2^(1/2)*x^(1/2))^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done
```

input file name test_cases/rubi_tests/0_Independent_test_suites/2_Bondarenko_Problems

Test file number 2

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \arccos\left(\sqrt{\frac{x}{1+x}}\right) dx = \text{Exception raised: TypeError}$$

input

```
integrate(arccos((x/(1+x))^(1/2)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(x) \tan(x) \left(\sqrt[3]{1-3\sec^2(x)} \sin^2(x) + 3 \tan^2(x) \right)}{(1-3\sec^2(x))^{5/6} \left(1 - \sqrt{1-3\sec^2(x)} \right)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(x)*((1-3*sec(x)^2)^(1/3)*sin(x)^2+3*tan(x)^2)/cos(x)^2/(1-3*
sec(x)^2)^(5/6)/(1-(1-3*sec(x)^2)^(1/2)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{9/4}}{(a+bx)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(9/4)/(b*x+a)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 727

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{5/4}}{(a+bx)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(5/4)/(b*x+a)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 728

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{x}}{(a+bx)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(1/4)/(b*x+a)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 729

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{13/4}}{(a+bx)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(13/4)/(b*x+a)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,3,2,0]%%} / %%{1,[0,0,0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 749

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{9/4}}{(a+bx)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(9/4)/(b*x+a)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,2,0]%%} / %%{1,[0,0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 750

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{5/4}}{(a+bx)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^(5/4)/(b*x+a)^(7/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,2,0]%%} / %%{1,[0,0,0,0,1]%%} Error: Bad Argument Valu
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a

Test file number 15

Integral number in file 751

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{\sqrt[4]{a + iax}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, choosing root of [1,0,0,0,%%{-1,[1,0]%%}+%%{i,[0,1]%%}] at parameters values [99,84]Warning, need to choose a branch for the roo
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{3/4}}{\sqrt[4]{a + iax}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(3/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done assuming 0 =[0,0]ext_re`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a - iax}\sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{5/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Lin-
ear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for
the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{a-iax}}{\sqrt[4]{a+iax}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a-I*a*x)^(1/4)/(a+I*a*x)^(1/4),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{3/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{19/4} \sqrt[4]{a + iax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(19/4)/(a+I*a*x)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{3/4}}{(a + iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(3/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a-iax}(a+iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{5/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done assuming 0=[0,0]ext_re`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{a-iax}}{(a+iax)^{3/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(1/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done assuming 0 = [0,0]ext_re`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{3/4}(a+iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(3/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{3/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(3/4),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, choosing root of [1,0,0,0,%%{-1,[1,0]%%}+%%{i,[0,1]%%}] at parameters values [44,93]Warning, need to choose a branch for the roo

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a-iax}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Lin-
ear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Warning, need to choose a branch for
the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{5/4}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(5/4),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{3/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{5/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(5/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Warning, choosing root of [1,0,0,0,%%{-1,[1,0]%%}+%%{i,[0,1]%%}] at parameters values [44,93]Warning, need to choose a branch for the roo`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a-iax}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{9/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(9/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done assuming 0 = [0,0]ext_re`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{7/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done assuming 0 = [0,0]ext_re`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{3/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{15/4}(a + iax)^{7/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(15/4)/(a+I*a*x)^(7/4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:
INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Warning, need to choose a branch for
the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{7/4}}{(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, choosing root of [1,0,0,0,%%{-1,[1,0]%%}+%%
{i,[0,1]%%}] at parameters values [44,93]Warning, need to choose a branch
for the roo
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{a-iax}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(1/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a-iax)^{5/4}(a+iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{9/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(9/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Lin-
ear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{13/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(13/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{17/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(17/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - iax)^{5/4}}{(a + iax)^{9/4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a-I*a*x)^(5/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{3/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-I*a*x)^(3/4)/(a+I*a*x)^(9/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b`

Test file number 16

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{7/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(7/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - iax)^{11/4}(a + iax)^{9/4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*a*x)^(11/4)/(a+I*a*x)^(9/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b

Test file number 16

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x(a-bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)/x/(-b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x^2(a-bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)/x^2/(-b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x^3(a - bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)/x^3/(-b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1

Test file number 19

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}\sqrt{c + dx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}(c+dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{x\sqrt{c+dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)/x/(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}\sqrt{c+dx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}}{x\sqrt{c+dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)/x/(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{5/2}\sqrt{c+dx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}(c + dx)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)*(d*x+c)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{x\sqrt{c + dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)/x/(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx}}{x\sqrt{a + bx}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(1/2)/x/(b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(3/2)/x/(b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x\sqrt{a + bx}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-a-bx}\sqrt{1+a+bx}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-b*x-a+1)^(1/2)/(b*x+a+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{x(a+bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(3/2)/x/(b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x^2(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/x^2/(b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{x(a + bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/x/(b*x+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m}{\left(1 - \frac{\sqrt{ax}}{\sqrt{-b}}\right)^2 \left(1 + \frac{\sqrt{ax}}{\sqrt{-b}}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(1-a^(1/2)*x/(-b)^(1/2))^2/(1+a^(1/2)*x/(-b)^(1/2))^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1]%%}, [2]%%}+%%{%%{[-2,0]: [1,0,%%{1, [1]
%%}]%%},
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 536

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(e + fx)^4}{(a - bx)^{3/2}(a + bx)^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)^4/(-b*x+a)^(3/2)/(b*x+a)^(9/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 857

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^3}{(a - bx)^{3/2}(a + bx)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^3/(-b*x+a)^(3/2)/(b*x+a)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 858

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{(a - bx)^{3/2}(a + bx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^2/(-b*x+a)^(3/2)/(b*x+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 859

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(a - bx)^{3/2}(a + bx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(-b*x+a)^(3/2)/(b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 860

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx}}{(a - bx)^{3/2}(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)/(-b*x+a)^(3/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 862

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{3/2}}{(a - bx)^{3/2}(e + fx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)/(-b*x+a)^(3/2)/(f*x+e)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 863

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{5/2}}{(a - bx)^{3/2}(e + fx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(5/2)/(-b*x+a)^(3/2)/(f*x+e)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 864

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}}{\sqrt{c+dx}(e+fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)/(d*x+c)^(1/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 902

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}}{\sqrt{a+bx}(e+fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(1/2)/(b*x+a)^(1/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 903

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{c+dx}}{(e+fx)(g+hx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)*(d*x+c)^(1/2)/(f*x+e)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^{3/2}(c+dx)^{3/2}}{(e+fx)(g+hx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(3/2)*(d*x+c)^(3/2)/(f*x+e)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{\sqrt{a + bx}(e + fx)(g + hx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(1/2)/(f*x+e)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{3/2}}{\sqrt{a + bx}(e + fx)(g + hx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(3/2)/(b*x+a)^(1/2)/(f*x+e)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{5/2}}{(a + bx)^{3/2}(e + fx)(g + hx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/(b*x+a)^(3/2)/(f*x+e)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m(c + dx)^n(e + fx)}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^m*(d*x+c)^n*(f*x+e)/(h*x+g)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,1,1,1,0,0]%%}+%%{1,[0,1,1,0,0,1,1]%%} / %%{1,[
0,0,0,0,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^n (e + fx)^2}{(g + hx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^m*(d*x+c)^n*(f*x+e)^2/(h*x+g)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,2,2,0,0]%%}+%%{-2,[0,1,1,1,1,1,1]%%}+%%{1,[0,
1,1,0,0,2`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{e+fx} dx = \text{Exception raised: TypeError}$$

input `integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{(e+fx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^2,x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-dx}\sqrt{1+dx}(A+Bx+Cx^2)}{(e+fx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-d*x+1)^(1/2)*(d*x+1)^(1/2)*(C*x^2+B*x+A)/(f*x+e)^3,x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{\sqrt{1 - dx}\sqrt{1 + dx}(e + fx)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((C*x^2+B*x+A)/(-d*x+1)^(1/2)/(d*x+1)^(1/2)/(f*x+e)^3,x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx}\sqrt{ac-bcx}(A+Bx+Cx^2)}{e+fx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^(1/2)*(-b*c*x+a*c)^(1/2)*(C*x^2+B*x+A)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{A+Bx+Cx^2}{\sqrt{a+bx}\sqrt{ac-bcx}(e+fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)^(1/2)/(-b*c*x+a*c)^(1/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}\sqrt{e+fx}(A+Bx+Cx^2)}{a+bx} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(1/2)*(f*x+e)^(1/2)*(C*x^2+B*x+A)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c+dx}(A+Bx+Cx^2)}{(a+bx)\sqrt{e+fx}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(1/2)*(C*x^2+B*x+A)/(b*x+a)/(f*x+e)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)\sqrt{c + dx}\sqrt{e + fx}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(b*x+a)/(d*x+c)^(1/2)/(f*x+e)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7

Test file number 27

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Cx^2}{(a + bx)^{3/2}\sqrt{c + dx}\sqrt{e + fx}\sqrt{g + hx}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+A)/(b*x+a)^(3/2)/(d*x+c)^(1/2)/(f*x+e)^(1/2)/(h*x+g)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/28_1.1.1.8

Test file number 28

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(a + bx)^{3/2} \sqrt{c + dx} \sqrt{e + fx} \sqrt{g + hx}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((C*x^2+B*x+A)/(b*x+a)^(3/2)/(d*x+c)^(1/2)/(f*x+e)^(1/2)/(h*x+g)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/28_1.1.1.8

Test file number 28

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\frac{2cd-be+\sqrt{b^2-4ace}}{2cf-bg+\sqrt{b^2-4acg}} - x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((2*c*d-b*e+(-4*a*c+b^2)^(1/2)*e)/(2*c*f-b*g+(-4*a*c+b^2)^(1/2)*g)-x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\frac{2cdf-bef+\sqrt{b^2-4acef}-bdg-\sqrt{b^2-4acd}g+2aeg}{2cf^2-2bfg+2ag^2} - x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((2*c*d*f-b*e*f+(-4*a*c+b^2)^(1/2)*e*f-b*d*g-(-4*a*c+b^2)^(1/2)*d*g+2*a*e*g)/(2*a*g^2-2*b*f*g+2*c*f^2)-x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1.2.1

Test file number 29

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{c + dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/(d*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/31_1.1.2.3`

Test file number 31

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{c + dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/(d*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/31_1.1.2.3

Test file number 31

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 - \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+2*c*x^2/(b-(-4*a*c+b^2)^(1/2))))^(1/2)/(1-2*c*x^2/(b+(-4*a*c+b^2)^(1/2))))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/31_1.1.2.3

Test file number 31

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - \frac{2cx^2}{b - \sqrt{b^2 - 4ac}}}}{\sqrt{1 + \frac{2cx^2}{b + \sqrt{b^2 - 4ac}}}} dx = \text{Exception raised: TypeError}$$

input `integrate(((1-2*c*x^2/(b-(-4*a*c+b^2)^(1/2))))^(1/2)/(1+2*c*x^2/(b+(-4*a*c+b^2)^(1/2))))^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.Non regula
r value [
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/31_1.1.2.3

Test file number 31

Integral number in file 237

Giac [**F(-2)**]

Exception generated.

$$\int \frac{x^4 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^4*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 924

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{c + dx^2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x^2+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 925

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 934

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 935

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{3/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 936

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 944

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{a + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 945

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^2 (a + bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^(5/2)/x^2/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 946

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^4 (a + bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^(5/2)/x^4/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 947

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 956

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^2)\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(b*x^2+a)/(d*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 957

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 967

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx^2)(c + dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(b*x^2+a)/(d*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 968

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 980

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(a + bx^2)(c + dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(b*x^2+a)/(d*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 981

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^{5/2}}{x^2 (a + bx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^(5/2)/x^2/(b*x^2+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1011

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{11/2}}{(a - bx^2)^2 (c - dx^2)^{5/2}} dx = \text{Exception raised: AttributeError}$$

input `integrate((e*x)^(11/2)/(-b*x^2+a)^2/(-d*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1156

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x\sqrt{c+dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1170

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx^2)^{3/2}}{x\sqrt{c+dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1181

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x/(d*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1192

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - bx^2}\sqrt{a + bx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(1/2)*(b*x^2+a)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1289

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - bx^2}\sqrt{a + bx^2}}{x^7} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(1/2)*(b*x^2+a)^(1/2)/x^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1296

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - bx^2}\sqrt{a + bx^2}}{x^{11}} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(1/2)*(b*x^2+a)^(1/2)/x^11,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1297

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a - bx^2}\sqrt{a + bx^2}}{x^{15}} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(1/2)*(b*x^2+a)^(1/2)/x^15,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1298

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - bx^2)^{3/2} (a + bx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(3/2)*(b*x^2+a)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1310

Giac [F(-2)]

Exception generated.

$$\int \frac{(a - bx^2)^{3/2} (a + bx^2)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-b*x^2+a)^(3/2)*(b*x^2+a)^(3/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1311

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{a - bx^2} \sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(-b*x^2+a)^(1/2)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1318

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^7 \sqrt{a - bx^2} \sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^7/(-b*x^2+a)^(1/2)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1319

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a - bx^2} \sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-b*x^2+a)^(1/2)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1322

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a-bx^2)^{3/2}(a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-b*x^2+a)^(3/2)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1339

Giac [F(-2)]

Exception generated.

$$\int (ex)^{3/2}\sqrt{1-bx^2}\sqrt{1+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(-b*x^2+1)^(1/2)*(b*x^2+1)^(1/2),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1348

Giac [F(-2)]

Exception generated.

$$\int \sqrt{ex}\sqrt{1-bx^2}\sqrt{1+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(-b*x^2+1)^(1/2)*(b*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1349

Giac [F(-2)]

Exception generated.

$$\int (ex)^{3/2} (1-bx^2)^{3/2} (1+bx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(-b*x^2+1)^(3/2)*(b*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1353

Giac [F(-2)]

Exception generated.

$$\int \sqrt{ex}(1 - bx^2)^{3/2} (1 + bx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(-b*x^2+1)^(3/2)*(b*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bino-
mial/32_1.1.2.4`

Test file number 32

Integral number in file 1354

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{\sqrt{1 - bx^2}\sqrt{1 + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(7/2)/(-b*x^2+1)^(1/2)/(b*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1368

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{\sqrt{1-bx^2}\sqrt{1+bx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x)^(5/2)/(-b*x^2+1)^(1/2)/(b*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1.2.4

Test file number 32

Integral number in file 1369

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}}{(1-bx^2)^{3/2}(1+bx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x)^(1/2)/(-b*x^2+1)^(3/2)/(b*x^2+1)^(3/2),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1376

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{3/2} (1 - bx^2)^{3/2} (1 + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(e*x)^(3/2)/(-b*x^2+1)^(3/2)/(b*x^2+1)^(3/2),x, algorithm="gia
c")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1378

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (1 - bx^2)^{3/2} (1 + bx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(-b*x^2+1)^(3/2)*(b*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1390

Giac [F(-2)]

Exception generated.

$$\int (ex)^m \sqrt{1 - bx^2} \sqrt{1 + bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(-b*x^2+1)^(1/2)*(b*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/32_1.1.2.4

Test file number 32

Integral number in file 1391

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(c+dx^2)}{e+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(c+dx^2)^2}{e+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(c+dx^2)^3}{e+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx^2)^{3/2}(c+dx^2)}{e+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(d*x^2+c)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 293

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (c + dx^2)^2}{e + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(d*x^2+c)^2/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (c + dx^2)^3}{e + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(d*x^2+c)^3/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1.2.5

Test file number 33

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{(c + dx^2)(e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/(d*x^2+c)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{(c + dx^2)(e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/(d*x^2+c)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{c + dx^2}{\sqrt{a + bx^2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^2}{\sqrt{a + bx^2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^2/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{\sqrt{a + bx^2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^3/(b*x^2+a)^(1/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^2}{(a + bx^2)^{3/2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^2/(b*x^2+a)^(3/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{(a + bx^2)^{3/2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^3/(b*x^2+a)^(3/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2)^3}{(a + bx^2)^{5/2} (e + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+c)^3/(b*x^2+a)^(5/2)/(f*x^2+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/33_1.1.2.5

Test file number 33

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2+Dx^3)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/36_1.1.2.8

Test file number 36

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx^2)^{3/2}(A+Bx+Cx^2+Dx^3)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_bi-
nomial/36_1.1.2.8

Test file number 36

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{x\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/x/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{x(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/x/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1.2.8

Test file number 36

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(A + Bx^2 + Cx^4)}{c + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^4+B*x^2+A)/(f*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/37_1.1.2.9

Test file number 37

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(A + Bx^2 + Cx^4)}{(c + dx^2)(e + fx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^4+B*x^2+A)/(d*x^2+c)/(f*x^2+e)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/38_1.1.2.11

Test file number 38

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^{2/3})^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b*x^(2/3))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value3*(-2*1/2/sageVARb*sageVARx^(1/3)*sqrt(sageVARa+sa`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{\sqrt[3]{x}}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x^(1/3))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage3:=type(sage2):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x^{2/3}} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x^(2/3))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:simplify: Polynomials do not have the same dimension Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x^{4/3}} \right)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a+b/x^(4/3))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Valueintegrate(sageVARx^3*sign(sageVARx)^2/(((sageVARx*`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/42_1.1.3.1_c

Test file number 42

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cx)^{11/2} (a + bx^3)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(c*x)^(11/2)/(b*x^3+a)^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARc/(sageVARc^4*t_nostep^6)) ignored324*sageVARb^2/486/sageVARc^5/sageVARa^3*sqrt(sageVARc*sageVARx)*sqrt(sageVARc*sageVARx)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/43_1.1.3.2_a

Test file number 43

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{17/2} \sqrt{1+x^5}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^(17/2)/(x^5+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}\sqrt{2+x^6}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^10/(x^6+2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{16}\sqrt{2+x^6}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^16/(x^6+2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10} (2 + x^6)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^10/(x^6+2)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/45_1.1.3.2_c

Test file number 45

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{x}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x} \right)^{5/2} x dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \frac{b}{x})^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x^3}x}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x^3)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 482

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x^3}\right)^{3/2} x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x^3)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 502

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x^5}} x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x^5)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-a + \frac{b}{x^5}x}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-a+b/x^5)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/46_1.1.3.2_d

Test file number 46

Integral number in file 571

Giac [F(-2)]

Exception generated.

$$\int (cx)^{3n} (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^(3*n)*(a+b*x^n)^p,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[2,0,6,4,2,4,4]%%}+%%{4,[2,0,6,4,2,3,4]%%}+%%{6,[2,0
,6,4,2,2,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 687

Giac [**F(-2)**]

Exception generated.

$$\int (cx)^{2n} (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

input

```
integrate((c*x)^(2*n)*(a+b*x^n)^p,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[1,0,4,3,1,3,3]%%}+%%{-3,[1,0,4,3,1,2,3]%%}+%%{-3,[
1,0,4,3,1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 688

Giac [F(-2)]

Exception generated.

$$\int (cx)^n (a + bx^n)^p dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^n*(a+b*x^n)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,0,2,1,0,1,2]%%}+%%{-1,[0,0,2,1,0,0,2]%%} / %%{1,[0,0,3,2,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 689

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c(a + bx)^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*(b*x+a)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/48_1.1.3.2_f

Test file number 48

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c(a+bx)^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*(b*x+a)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/48_1.1.3.2_f

Test file number 48

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{c}{(a+bx)^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c/(b*x+a)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/48_1.1.3.2_f

Test file number 48

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+b(c+dx)^3)} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/x/(a+b*(d*x+c)^3),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/48_1.1.3.2_f

Test file number 48

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{c}{\sqrt{a+bx^2}}\right)^{3/2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c/(b*x^2+a)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g

Test file number 49

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{c}{\sqrt{a+bx^2}}\right)^{3/2}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c/(b*x^2+a)^(1/2))^(3/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,2,0,0]}%%}+%%{-1,[0,1,0,0,1,0]}%%} / %%{1,[0,0,2,0,0,2]}%`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g`

Test file number 49

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(1/2)*(c+d/x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c`

Test file number 52

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(1/2)*(c+d/x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{b}{x}} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(1/2)*(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{x}}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(1/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.3/52_1.1.3.3_c`

Test file number 52

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2)*(c+d/x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.3/52_1.1.3.3_c`

Test file number 52

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2)*(c+d/x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2)*(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{3/2}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(3/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)*(c+d/x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)*(c+d/x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)*(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \left(a + \frac{b}{x}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x}\right)^{5/2}}{c + \frac{d}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^(5/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(c + \frac{d}{x}\right)^3}{\sqrt{a + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^3/(a+b/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^2}{\sqrt{a + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^2/(a+b/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{b}{x}} (c + \frac{d}{x})} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x)^(1/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^3}{(a + \frac{b}{x})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^3/(a+b/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \frac{b}{x})^{3/2} (c + \frac{d}{x})} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x)^(3/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x}\right)^{3/2} \left(c + \frac{d}{x}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x)^(3/2)/(c+d/x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(a + \frac{b}{x}\right)^{5/2} \left(c + \frac{d}{x}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/x)^(5/2)/(c+d/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,2,4,4,3,0]%%}+%%{4,[2,0,6,4,2,3,4,3,0]%%}+%%{6,[2,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,2,3,2,0]%%}+
%%{-3,[1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 120

Giac [**F(-2)**]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,2,2,1,2,1,0,1]%%}+%%{2,[0,0,2,2,1,1,1,0,1]%%}+%%
%{1,[0,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^3 (c + dx^n)^{-4-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^3*(c+d*x^n)^(-4-1/n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{81,[2,0,6,4,2,4,3,0]%%}+%%{108,[2,0,6,3,2,4,3,0]%%}+%%{54,[2,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^2 (c + dx^n)^{-3-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^2*(c+d*x^n)^(-3-1/n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{8,[1,0,4,3,1,3,2,0]%%}+%%{12,[1,0,4,2,1,3,2,0]%%}+%%{6,[1,0,4,1

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)(c + dx^n)^{-2-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)*(c+d*x^n)^(-2-1/n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,1,0,1]%%}+%%{1,[0,0,2,1,1,1,0,1]%%}+%%{1,[0,0,2,1,

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c`

Test file number 52

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^2 (c + dx^n)^{-4-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^2*(c+d*x^n)^(-4-1/n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{27,[1,0,4,3,1,3,2,0]%%}+%%{27,[1,0,4,2,1,3,2,0]%%}+%%{9,[1,0,4,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)(c + dx^n)^{-3-\frac{1}{n}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)*(c+d*x^n)^(-3-1/n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{4,[0,0,2,2,1,1,0,1]%%}+%%{2,[0,0,2,1,1,1,0,1]%%}+%%{2,[0,0,2,1,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^3}(A + Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((b*x^3+a)^(1/2)*(B*x^3+A)/(e*x)^(5/2),x, algorithm="giac")`

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored1/sageVARE^3/((1/sageVARE)^2)*2*sageVARE*sageVARB/6/sageVARE^6*sqrt(sageVARE*sageVARx)*s
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3)^{3/2} (A + Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input

```
integrate((b*x^3+a)^(3/2)*(B*x^3+A)/(e*x)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored1/sageVARE^3/((1/sageVARE)^2)*2*(120*sageVARb^5*sageVARE^6*sageVARB/1440/sageVARb^4/sage
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^3)^{5/2} (A + Bx^3)}{(ex)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((b*x^3+a)^(5/2)*(B*x^3+A)/(e*x)^(5/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored1/sageVARE^3/((1/sageVARE)^2)*2*((8870400*sageVARb^12*sageVARE^14*sageVAREB/159667200/sag`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^3}{(ex)^{5/2} (a + bx^3)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((B*x^3+A)/(e*x)^(5/2)/(b*x^3+a)^(5/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb*sageVARE/(sageVARE^4*t_nostep^6)) ignored2*(-(23914845*sageVARb^7*sageVARE^18*sageVARa^6*sageVARA-9565938*sageVARb^6*sageVARE^18*`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx^3} (2(5+3\sqrt{3})a+bx^3)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(b*x^3+a)^(1/2)/(2*(5+3*3^(1/2))*a+b*x^3),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 523

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a-bx^3} (2(5+3\sqrt{3})a-bx^3)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-b*x^3+a)^(1/2)/(2*(5+3*3^(1/2))*a-b*x^3),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 524

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a + bx^3} (-2(5 + 3\sqrt{3})a + bx^3)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x/(b*x^3-a)^(1/2)/(-2*(5+3*3^(1/2))*a+b*x^3),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a`

Test file number 54

Integral number in file 525

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a - bx^3} (-2(5 + 3\sqrt{3})a - bx^3)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x/(-b*x^3-a)^(1/2)/(-2*(5+3*3^(1/2))*a-b*x^3),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 526

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + bx^3} (2(5 - 3\sqrt{3})a + bx^3)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(b*x^3+a)^(1/2)/(2*(5-3*3^(1/2))*a+b*x^3),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 527

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a - bx^3} (2(5 - 3\sqrt{3})a - bx^3)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-b*x^3+a)^(1/2)/(2*(5-3*3^(1/2))*a-b*x^3),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 528

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2(5-3\sqrt{3})a-bx^3)\sqrt{-a+bx^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(2*(5-3*3^(1/2))*a-b*x^3)/(b*x^3-a)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 529

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{-a-bx^3}(2(5-3\sqrt{3})a+bx^3)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x/(-b*x^3-a)^(1/2)/(2*(5-3*3^(1/2))*a+b*x^3),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/54_1.1.3.4_a

Test file number 54

Integral number in file 530

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{c + dx^4}}{a + bx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(d*x^4+c)^(1/2)/(b*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{x^9}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^9/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(a + bx^4)\sqrt{c + dx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(b*x^4+a)/(d*x^4+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/55_1.1.3.4_b

Test file number 55

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8(c + dx^6)}{(a + bx^6)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^8*(d*x^6+c)/(b*x^6+a)^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb/t_nostep^6) ignored2*(486*sageVARb^4*sageVARd*1/5832/sageVARb^5*sageVARx*sageVARx*sageVARx*sageVARx*sageVARx*sageVARx-sageVARx-(972*sageVA`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{14}(c + dx^6)}{(a + bx^6)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^14*(d*x^6+c)/(b*x^6+a)^(5/2),x, algorithm="giac")`

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb/t_nostep^6) ignored2*((86093442*sageVARb^10*sageVARd*sageVARa^5*1/1033121304/sageVARb^11/sageVARa^5*sageVARx*sageVARx*sageVARx*sa
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8(c + dx^6)}{(a + bx^6)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input

```
integrate(x^8*(d*x^6+c)/(b*x^6+a)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb/t_nostep^6) ignored2*(-(-9565938*sageVARb^7*sageVARa^4*sageVARc+38263752*sageVARb^6*sageVARd*sageVARa^5)*1/172186884/sageVARb^7/s
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{c + dx^6}{x^4 (a + bx^6)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((d*x^6+c)/x^4/(b*x^6+a)^(5/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb/t_nostep^6) ignored2*(-(47829690*sageVARb^7*sageVARa^6*sageVARc-19131876*sageVARb^6*sageVARa^7*sageVARd)*1/172186884/sageVARb^5/s`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{c + dx^6}{x^{10} (a + bx^6)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((d*x^6+c)/x^10/(b*x^6+a)^(5/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARa>=(-sageVARb/t_nostep^6) ignored2*(-(-76527504*sageVARb^8*sageVARa^7*sageVARc+47829690*sageVARb^7*sageVARa^8*sageVARd)*1/172186884/sageVARb^5/`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{19}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^19/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(a + bx^8)\sqrt{c + dx^8}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11/(b*x^8+a)/(d*x^8+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a-bx^{3/2}}\sqrt{a+bx^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a-b*x^(3/2))^(1/2)/(a+b*x^(3/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int (a+bx^n)^p (c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,2,2,1,2,1,0,1]%%}+%%{2,[0,0,2,2,1,1,1,0,1]%%}+%%
%{1,[0,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int (ex)^{3/2} (a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2, [0,0,0,7,2,1,2,2]%%}+%%{-4, [0,0,0,7,2,1,1,2]%%}+%%{-2, [0,0,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 421

Giac [F(-2)]

Exception generated.

$$\int \sqrt{ex}(a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2,[0,0,0,5,2,1,2,2]%%}+%%{-4,[0,0,0,5,2,1,1,2]%%}+%%{-2,[0,0,0
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p (c + dx^n)}{\sqrt{ex}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*x^n)^p*(c+d*x^n)/(e*x)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2,[0,0,0,2,1,0,1,2]%%}+%%{-2,[0,0,0,2,1,0,0,2]%%} / %%{4,[0,0,
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p (c + dx^n)}{(ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n)/(e*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2,[0,0,0,2,1,0,1,2]%%}+%%{-2,[0,0,0,2,1,0,0,2]%%} / %%{4,[0,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p (c + dx^n)}{(ex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n)/(e*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2,[0,0,0,2,1,0,1,2]%%}+%%{-2,[0,0,0,2,1,0,0,2]%%} / %%{4,[0,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (a + b(3 + 2p)x^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(a+b*(3+2*p)*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,2,2]%%}+%%{2,[0,0,2,2,1,1,2]%%}+%%{1,[0,0,2,2,1,0,`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int x^{-n}(a + bx^n)^p (-a + b(1 + 2p)x^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(-a+b*(1+2*p)*x^n)/(x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,2,2]%%}+%%{2,[0,0,2,2,1,1,2]%%}+%%{1,[0,0,2,2,1,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,0,1,2,1,0,1]%%}+%%{2,[0,0,2,2,0,1,1,1,0,1]%%}+%%{1,[`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(1+p)}(a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(p+1))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,0,2,0,2,2,1,0]%%}+%%{2,[0,0,0,2,0,2,1,1,0]%%}+%%
%{1,[0,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (c + dx^n)^3 dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x)^m*(a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[2,0,6,4,0,2,4,4,3,0]%%}+%%{4,[2,0,6,4,0,2,3,4,3,0]%%
}+%%{6,[
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 496

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (c + dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [1,0,4,3,0,1,3,3,2,0]%%}+%%{-3, [1,0,4,3,0,1,2,3,2,0]%%}+%%{-

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 497

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,0,2,2,0,1,2,1,0,1]%%}+%%{2, [0,0,2,2,0,1,1,1,0,1]%%}+%%{1, [

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 498

Giac [F(-2)]

Exception generated.

$$\int x^{m+2n}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m+2*n)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,2,0,1,0,1]%%}+%%{4,[0,0,2,2,1,1,0,1,0,1]%%}+%%{3,[

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 502

Giac [F(-2)]

Exception generated.

$$\int x^{m+n}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m+n)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,0,1,2,1,0,1]%%}+%%{3,[0,0,2,2,0,1,1,1,0,1]%%}+%%{2,[

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 503

Giac [F(-2)]

Exception generated.

$$\int x^{m-n}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m-n)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,2,0,1,0,1]%%}+%%{1,[0,0,2,2,1,1,0,1,0,1]%%}+%%{1,[`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 505

Giac [F(-2)]

Exception generated.

$$\int x^{m-2n}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(m-2*n)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,2,2,1,2,0,1,0,1]%%}+%%{-1,[0,0,2,2,1,0,0,1,0,1]%%
%}+%%{2,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 506

Giac [F(-2)]

Exception generated.

$$\int x^{m-3n}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^(m-3*n)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,2,2,1,2,0,1,0,1]%%}+%%{-1,[0,0,2,2,1,1,0,1,0,1]%%
%}+%%{-2
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 507

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(3+p)}(a+bx^n)^p(c+dx^n)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(3+p))*(a+b*x^n)^p*(c+d*x^n)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[3,0,8,5,3,5,5,4,0]%%}+%%{-5,[3,0,8,5,3,5,4,4,0]%%}+%%{-10,[

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 512

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(3+p)}(a+bx^n)^p(c+dx^n)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(3+p))*(a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,2,4,4,3,0]%%}+%%{4,[2,0,6,4,2,4,3,3,0]%%}+%%{6,[2,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 513

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(3+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(3+p))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [1,0,4,3,1,3,3,2,0]%%}+%%{-3, [1,0,4,3,1,3,2,2,0]%%}+%%{-3, [1

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 514

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(3+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(3+p))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2, [0,0,2,2,1,1,1,0,1]%%}+%%{-2, [0,0,2,2,1,1,0,0,1]%%}+%%{1, [0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(2+p)}(a+bx^n)^p(c+dx^n)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(2+p))*(a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,2,4,4,3,0]%%}+%%{4,[2,0,6,4,2,4,3,3,0]%%}+%%{6,[2,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 519

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(2+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(2+p))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,3,2,2,0]%%}+
%%{-3,[1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 520

Giac [**F(-2)**]

Exception generated.

$$\int x^{-1-n(2+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^(-1-n*(2+p))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,0,2,2,1,1,1,0,1]%%}+%%{-1,[0,0,2,2,1,1,0,0,1]%%}+
%%{1,[0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 521

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(1+p)}(a+bx^n)^p(c+dx^n)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(p+1))*(a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,2,4,2,4,4,3,0]%%}+%%{4,[2,0,2,4,2,4,3,3,0]%%}+%%{6,[2,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 525

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(1+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(p+1))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,1,3,1,3,3,2,0]%%}+%%{-3,[1,0,1,3,1,3,2,2,0]%%}+%%{-3,[1

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 526

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(1+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(p+1))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,0,2,0,2,2,1,0]%%}+%%{2,[0,0,0,2,0,2,1,1,0]%%}+%%{1,[0,0,

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 527

Giac [F(-2)]

Exception generated.

$$\int x^{-1-np}(a+bx^n)^p(c+dx^n)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-n*p-1)*(a+b*x^n)^p*(c+d*x^n)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,2,4,4,3,0]%%}+%%{4,[2,0,6,4,2,4,3,3,0]%%}+%%{6,[2,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 532

Giac [F(-2)]

Exception generated.

$$\int x^{-1-np}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-n*p-1)*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,3,2,2,0]%%}+%%{-3,[1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 533

Giac [F(-2)]

Exception generated.

$$\int x^{-1-np}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-n*p-1)*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,2,1,1,1,0,1]%%}+%%{1,[0,0,2,2,1,1,0,0,1]%%}+%%{1,[0,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 534

Giac [**F(-2)**]

Exception generated.

$$\int x^{-1-n(-1+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^(-1-n*(-1+p))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,3,2,2,0]%%}+%%{-3,[1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 539

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(-1+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(-1+p))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{2,[0,0,2,2,1,1,1,0,1]%%}+%%{2,[0,0,2,2,1,1,0,0,1]%%}+%%{1,[0,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 540

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(-2+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(-2+p))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,3,2,2,0]%%}+%%{-3,[1

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 546

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(-2+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(-2+p))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{3,[0,0,2,2,1,1,1,0,1]%%}+%%{3,[0,0,2,2,1,1,0,0,1]%%}+%%{1,[0,0,`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c`

Test file number 56

Integral number in file 547

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(-3+p)}(a+bx^n)^p(c+dx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(-3+p))*(a+b*x^n)^p*(c+d*x^n)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,1,3,3,2,0]%%}+%%{-3,[1,0,4,3,1,3,2,2,0]%%}+%%{-3,[1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 554

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n(-3+p)}(a+bx^n)^p(c+dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n*(-3+p))*(a+b*x^n)^p*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{4,[0,0,2,2,1,1,1,0,1]%%}+%%{4,[0,0,2,2,1,1,0,0,1]%%}+%%{1,[0,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 555

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n}(a+bx^n)^p(c+dx^n)^q dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n)*(a+b*x^n)^p*(c+d*x^n)^q,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,0,4,3,8,2,3,3,9,3]%%}+%%{6,[0,0,4,3,7,3,3,3,8,4]%%
%}+%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 574

Giac [**F(-2)**]

Exception generated.

$$\int x^{-1-2n}(a+bx^n)^p(c+dx^n)^q dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^(-1-2*n)*(a+b*x^n)^p*(c+d*x^n)^q,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,0,4,3,8,2,3,3,9,3]%%}+%%{6,[0,0,4,3,7,3,3,3,8,4]%%
%}+%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 575

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b - \frac{a}{x}} x^m}{\sqrt{a - bx}} dx = \text{Exception raised: TypeError}$$

input `integrate((b-a/x)^(1/2)*x^m/(-b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 589

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q (e + fx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(c+d*x^n)^q*(e+f*x^n)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1, [1,0,5,3,10,3,4,4,10,3,0,2]%%}+%%{-4, [1,0,5,3,10,3,4,
3,10,3,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/58_1.1.3.5

Test file number 58

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \frac{b}{x})^p (c + \frac{d}{x})^q}{e + \frac{f}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x)^p*(c+d/x)^q/(e+f/x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \frac{b}{x^2})^p (c + \frac{d}{x^2})^q}{e + \frac{f}{x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x^2)^p*(c+d/x^2)^q/(e+f/x^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{x^3}\right)^p \left(c + \frac{d}{x^3}\right)^q}{e + \frac{f}{x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/x^3)^p*(c+d/x^3)^q/(e+f/x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n)(c + dx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a+b*x^n)^p*(A+B*x^n)*(c+d*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,0,1,3,3,1,1,0,0]%%}+%%{-3,[1,0,4,3,0,1,2,3,1,1,0,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int (gx)^m (a + bx^n)^p (c + dx^n)^q (e + fx^n)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((g*x)^m*(a+b*x^n)^p*(c+d*x^n)^q*(e+f*x^n)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,5,3,0,10,3,4,4,10,3,0,2]}+%%{-4,[1,0,5,3,0,10,3,4,3,10,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (A + Bx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(A+B*x^n),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,0,2,2,1,2,1,0,1]%%}+%%{2,[0,0,2,2,1,1,1,0,1]%%}+%%
%{1,[0,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.7/63_1.1.3.7_c

Test file number 63

Integral number in file 68

Giac [**F(-2)**]

Exception generated.

$$\int (a + bx^n)^p (A + Bx^n + Cx^{2n}) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*x^n)^p*(A+B*x^n+C*x^(2*n)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[1,0,4,3,1,3,3,1,0,0]%%}+%%{-3,[1,0,4,3,1,2,3,1,0,0]%%
%%}+%%{-
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_Gen-
eral_binomial/1.1.3.7/63_1.1.3.7_c

Test file number 63

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (A + Bx^n + Cx^{2n} + Dx^{3n}) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n)^p*(A+B*x^n+C*x^(2*n)+D*x^(3*n)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,2,4,4,1,0,0,0]%%}+%%{4,[2,0,6,4,2,3,4,1,0,0,0]%%}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/63_1.1.3.7_c

Test file number 63

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \left(c + \frac{d}{x}\right)^{3/2} (a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^(3/2)*(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^{3/2} (a + bx)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^(3/2)*(b*x+a)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + \frac{d}{x})^{3/2} (a + bx)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x)^(3/2)*(b*x+a)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \left(c + \frac{d}{x^2} \right)^{3/2} x^2 (a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((c+d/x^2)^(3/2)*x^2*(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int (cx)^m (a + bx^n)^p (d + ex^n + fx^{2n} + gx^{3n}) dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(a+b*x^n)^p*(d+e*x^n+f*x^(2*n)+g*x^(3*n)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2,0,6,4,0,2,4,4,1,0,0,0]%%}+%%{4,[2,0,6,4,0,2,3,4,1,0,0,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 - b^2 x^2}}{(a + bx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-b^2*x^2+a^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARb)*(-(2*atan(i)-2*i)/sageVARb^2*sign((sageVARb*sageVARx+sageVARa)^-1)*sign(sageVARb)-2*sageVARa*(sqrt(2*sageVARa*sageVARb*(sageVARb*sageVARx+sageVARa)^-1/sageVA`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - x^2}}{(1 + x)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-x^2+1)^(1/2)/(1+x)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -(2*atan(i)-2*i)*sign((sageVARx+1)^-1)-2*(sqrt(2*(sageVARx+1)^-1-1)*sign((sageVARx+1)^-1)-sign((sageVARx+1)^-1)*atan(sqrt(2*(sageVARx+1)^-1-1)))`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-x^2}}{(1-x)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-x^2+1)^(1/2)/(1-x)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -(2*atan(i)-2*i)*sign((sageVARx-1)^-1)+2*(-sqrt(-2*(sageVARx-1)^-1-1)*sign((sageVARx-1)^-1)+sign((sageVARx-1)^-1)*atan(sqrt(-2*(sageVARx-1)^-1-1)))`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^{4/3}(c^2-d^2x^2)^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^(4/3)/(-d^2*x^2+c^2)^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^{7/3}(c^2-d^2x^2)^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^(7/3)/(-d^2*x^2+c^2)^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int \sqrt{2+ex} \sqrt[4]{12-3e^2x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+2)^(1/2)*(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12 - 3e^2x^2}}{(2 + ex)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 306

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12 - 3e^2x^2}}{(2 + ex)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{12 - 3e^2x^2}}{(2 + ex)^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-3*e^2*x^2+12)^(1/4)/(e*x+2)^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{(2 + ex)^{5/2}}{\sqrt[4]{12 - 3e^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+2)^(5/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{3/2} \sqrt[4]{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+2)^(3/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+ex)^{7/2} \sqrt[4]{12-3e^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+2)^(7/2)/(-3*e^2*x^2+12)^(1/4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/70_1.2.1.1

Test file number 70

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{c+dx}(a-bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^(1/4)/(-b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:int() Bad Argument Typesym2poly/r2 sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument ValueDon`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x^2+a)^(1/2)/(d*x+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^2 \sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^2/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/71_1.2.1.2

Test file number 71

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^2}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(d*x+c)^2/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c^2 - d^2 x^2}}{(c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+c^2)^(1/2)/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*(-(2*atan(i)-2*i)/sageVARd^2*sign((sageVARd*sageVARx+sageVARc)^-1)*sign(sageVARd)-2*sageVARc*(sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sageVA`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{1 - a^2 x^2}}{(1 - ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(-a^2*x^2+1)^(1/2)/(-a*x+1)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - a^2 x^2}}{(1 - ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*x^2+1)^(1/2)/(-a*x+1)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4`

Test file number 72

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{1 - a^2 x^2}}{(1 - ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a^2*x^2+1)^(1/2)/(-a*x+1)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4`

Test file number 72

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}}{x^3(1-ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)/x^3/(-a*x+1)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4\sqrt{1-a^2x^2}}{(1-ax)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(-a^2*x^2+1)^(1/2)/(-a*x+1)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - a^2 x^2}}{(1 - ax)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*x^2+1)^(1/2)/(-a*x+1)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{1 - a^2 x^2}}{(1 - ax)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a^2*x^2+1)^(1/2)/(-a*x+1)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}}{x^2(1-ax)^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)/x^2/(-a*x+1)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2x^2)^{3/2}}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^(3/2)/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{3/2}}{x^2(c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+c^2)^(3/2)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*(-2*sign((sageVARd*sageVARx+sageVARc)^-1)*sign(sageVARd)*atan(sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sageVARd-1))+2*sign((sageVARd*sageVARx`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(1 - a^2 x^2)^{3/2}}{1 - ax} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a^2*x^2+1)^(3/2)/(-a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{5/2}}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^(5/2)/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{5/2}}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^(5/2)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{5/2}}{x^3 (c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^(5/2)/x^3/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{5/2}}{x^4 (c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+c^2)^(5/2)/x^4/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(
sageVARd)*(1/3*(12*sageVARd^2*sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+
sageVARc)^-1/sageVARd-1)*(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)
^-1/sageVARd-1)^2*s`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)^2\sqrt{c^2-d^2x^2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^2/(d*x+c)^2/(-d^2*x^2+c^2)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARd)*(-(-6*atan(i)+5*i)/3/sageVARd^2*sign((sageVARd*sageVARx+sageVARc)^-1)*sign(sageVARd)+2*sageVARc*(1/64*(-16/3*sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc))))`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1+ax)\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a*x+1)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 375

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(1-ax)\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(-a*x+1)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x+c)/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^2}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(d*x+c)^2/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^2}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x+c)^2/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^2}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(d*x+c)^2/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 385

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^2}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 386

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(c+dx)^3}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(d*x+c)^3/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^3}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x+c)^3/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \frac{x(c+dx)^3}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(d*x+c)^3/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^3}{(bc^2-bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^3/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{x (bc^2 - bd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^3/x/(-b*d^2*x^2+b*c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + dx)^2 (c^2 - d^2x^2)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^4/(d*x+c)^2/(-d^2*x^2+c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARd)*(1/32768*(-20480/3*sageVARd^16*sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sageVARd-1)*(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sa`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(1+ax)^2(1-a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a*x+1)^2/(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c+dx)^3}{(bc^2-bd^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(d*x+c)^3/(-b*d^2*x^2+b*c^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(c+dx)^2 (c^2-d^2x^2)^{5/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^6/(d*x+c)^2/(-d^2*x^2+c^2)^(5/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARd)*(1/34359738368*(1073741824/7*sageVARd^36*sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sageVARd-1)*(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageV`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{(c+dx)^2 (c^2-d^2x^2)^{7/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^8/(d*x+c)^2/(-d^2*x^2+c^2)^(7/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARd)*(1/9223372036854775808*(72057594037927936/9*sageVARd^64*sqrt(2*sageVARc*sageVARd*(sageVARd*sageVARx+sageVARc)^-1/sageVARd-1)*(2*sageVARc*sageVARd*(sageVARd`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 497

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{b-ax}\sqrt{1-a^2x^2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*b*x+b)^(1/2)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4`

Test file number 72

Integral number in file 640

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}\sqrt{bc^2-bd^2x^2}}{(c+dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(-b*d^2*x^2+b*c^2)^(1/2)/(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 897

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} (c^2 - d^2 x^2)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(5/2)*(-d^2*x^2+c^2)^(3/2)/(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 975

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} (c^2 - d^2 x^2)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(-d^2*x^2+c^2)^(3/2)/(d*x+c)^(5/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 976

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c^2 - d^2x^2)^{3/2}}{(c + dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x)^(1/2)*(-d^2*x^2+c^2)^(3/2)/(d*x+c)^(5/2),x, algorithm="gia
c")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 977

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^{3/2}}{(ex)^{3/2}(c + dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^(3/2)/(e*x)^(3/2)/(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 979

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{\sqrt{c+dx}\sqrt{bc^2-bd^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^(1/2)/(-b*d^2*x^2+b*c^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1011

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{\sqrt{c+dx}\sqrt{bc^2-bd^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^(1/2)/(-b*d^2*x^2+b*c^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1012

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}\sqrt{c+dx}}{(c^2-d^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(7/2)*(d*x+c)^(1/2)/(-d^2*x^2+c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1033

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} \sqrt{c+dx}}{(c^2-d^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(5/2)*(d*x+c)^(1/2)/(-d^2*x^2+c^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1034

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} \sqrt{c+dx}}{(c^2-d^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(1/2)/(-d^2*x^2+c^2)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1035

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{(c+dx)^2(c^2-d^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x)^m/(d*x+c)^2/(-d^2*x^2+c^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,4,0,0,0]}%%}+%%{3,[0,1,2,0,0,0]}%%}+%%{3,[0,1,0,0
,0,0]}%%}
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1187

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(c^2 - d^2x^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-d^2*x^2+c^2)^p/(d*x+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,5,1,0]%%} / %%{1,[0,0,0,5]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1237

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(c^2 - d^2x^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(-d^2*x^2+c^2)^p/(d*x+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,1,0]%%} / %%{1,[0,0,0,4]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1238

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(c^2 - d^2x^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-d^2*x^2+c^2)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,3,1,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1239

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(c^2 - d^2x^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-d^2*x^2+c^2)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1240

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^p}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^p/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1243

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^p}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^p/x^2/(d*x+c)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,2,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument
Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1244

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^p}{x^3 (c + dx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-d^2*x^2+c^2)^p/x^3/(d*x+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,3,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument
Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1245

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^p}{x^4 (c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^p/x^4/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,4,0]%%} / %%{1,[0,0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1246

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2 x^2)^p}{x^5 (c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^p/x^5/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,5,0]%%} / %%{1,[0,0,0,5]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1247

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2} \sqrt{c+dx}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(5/2)*(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 853

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2} \sqrt{c+dx}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 854

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}\sqrt{c+dx}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 855

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)^{3/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)*(d*x+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 860

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)^{3/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 861

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{3/2}}{\sqrt{ex}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(3/2)/(e*x)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,0]%%}, [0,2,0]%%}+%%{%%{1, [0,1]%%}, [0,0,2]%%
} / %%{%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 862

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}(c+dx)^{5/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x)^(3/2)*(d*x+c)^(5/2)/(b*x^2+a),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 867

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ex}(c+dx)^{5/2}}{a+bx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(1/2)*(d*x+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 868

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)^{5/2}}{\sqrt{ex}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(5/2)/(e*x)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,0]%%}, [0,2,0]%%}+%%{%%{1, [0,1]%%}, [0,0,2]%%
} / %%{%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 869

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{5/2}}{\sqrt{c+dx}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(5/2)/(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 875

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{3/2}}{\sqrt{c+dx}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(3/2)/(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5`

Test file number 73

Integral number in file 876

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ex}\sqrt{c+dx}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x)^(1/2)/(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,0]%%},[0,2,0]%%}+%%{%%{1,[0,1]%%},[0,0,2]%%} / %%{%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 878

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(ex)^{5/2}\sqrt{c+dx}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x)^(5/2)/(d*x+c)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,0]%%},[0,2,0]%%}+%%{%%{1,[0,1]%%},[0,0,2]%%} / %%{%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 880

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(c+dx)^{3/2}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(7/2)/(d*x+c)^(3/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 881

Giac [F(-2)]

Exception generated.

$$\int \frac{(ex)^{7/2}}{(c+dx)^{5/2}(a+bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^(7/2)/(d*x+c)^(5/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 888

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 976

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2\sqrt{a + bx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*x^2+a)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 988

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 997

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 998

Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx^2}}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 999

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1000

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1001

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1009

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}}{x^3(c+dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)/x^3/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1022

Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx^2}}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1027

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1037

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 (a + bx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*x^2+a)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1051

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3 (a + bx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^3*(b*x^2+a)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1065

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1075

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1076

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1077

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1078

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1079

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1080

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1081

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1091

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1099

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^3(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^3/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1101

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^4(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^4/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1102

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^5(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^5/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1103

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^3(c + dx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^3/(d*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1111

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2}}{x^4(c + dx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)/x^4/(d*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1112

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{3/2}}{(c + dx)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(3/2)/(d*x+c)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1113

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx^2)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1118

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1128

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1129

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1130

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1131

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1132

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1133

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^4(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x^4/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1134

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2}}{x^5(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)/x^5/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1135

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1143

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1153

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1154

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1155

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x^4(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x^4/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1156

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x^5(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x^5/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1157

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{7/2}}{x^6(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(7/2)/x^6/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1158

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/x/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1164

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1182

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+dx)\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1183

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1184

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c+dx)\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1185

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+dx)\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1187

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)^2\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x+c)^2/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1193

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^2\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^2/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1195

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+dx)^3\sqrt{a+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(d*x+c)^3/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1207

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c+dx)(a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1229

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+dx)(a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1230

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+dx)(a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1234

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c+dx)^2 (a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(d*x+c)^2/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Recursive assumption sageVARa>=((-sageVARb*sageVARc^2*sageVARd^2*t_nostep^2-2*sageVARb*sageVARc*sageVARd*t_nostep-sage`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1239

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+dx)^3 (a+bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(d*x+c)^3/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1256

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(c+dx)(a+bx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(d*x+c)/(b*x^2+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1276

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c+dx)(a+bx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(d*x+c)/(b*x^2+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1277

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+dx)(a+bx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(d*x+c)/(b*x^2+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1283

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(c+dx)^2(a+bx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(d*x+c)^2/(b*x^2+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Recursive assumption sageVARa>=((-s
ageVARb*sageVARc^2*sageVARd^2*t_nostep^2-2*sageVARb*sageVARc*sageVARd*t_no
step-sage`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1286

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,1,0]%%} / %%{1,[0,0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1850

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,3,1,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1851

Giac [**F(-2)**]

Exception generated.

$$\int \frac{x^2(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1852

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^p/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1855

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^p/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1856

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(c^2 - d^2x^2)^{3/2}}{(c + dx)^5} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((B*x+A)*(-d^2*x^2+c^2)^(3/2)/(d*x+c)^5,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*(-((-3*i)*sageVARA*sageVARd-30*sageVARB*sageVARc*atan(i)+43*i*sageVARB*sageVARc)/15/sageVARc/sageVARd^3*sign((sageVARd*sageVARx+sageVARc)^-1)*sign(sageVARd)-`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/74_1.2.1.6

Test file number 74

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(c^2 - d^2x^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(-d^2*x^2+c^2)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,1,0,0]%%}+%%{1,[0,0,0,1,1,1]%%} / %%{1,[0,0,0,0,1,0]%%}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/74_1.2.1.6`

Test file number 74

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c^2 - d^2x^2}(A + Bx + Cx^2 + Dx^3)}{(c + dx)^5} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+c^2)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^5,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*(-(2*i*sageVARA*sageVARd^3+5*i*sageVARB*sageVARc*sageVARd^2+23*i*sageVARC*sageVARc^2*sageVARd+210*sageVARd*sageVARc^3*atan(i)+(-296*i)*sageVARd*sageVARc^3)/1`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/74_1.2.1.6`

Test file number 74

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{(c^2 - d^2x^2)^p (A + Bx + Cx^2 + Dx^3)}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+c^2)^p*(D*x^3+C*x^2+B*x+A)/(d*x+c)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,3,0,0,0,0]%%}+%%{-1,[0,1,0,2,1,1,0,0]%%}+%%{-1,[0,1,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/74_1.2.1.6

Test file number 74

Integral number in file 239

Giac [**F(-2)**]

Exception generated.

$$\int \frac{x^5(a+bx^2)^p}{(c+dx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^5*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,5,1,0]%%} / %%{-1,[0,0,0,5]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,3,1,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument
Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^p/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Val
ue`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x^3(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^p/x^3/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,3,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,1,0]%%} / %%{1,[0,0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx^2)^p}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^p/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^p/x^2/(d*x+c)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,2,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument
Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^p}{x^4(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x^2+a)^p/x^4/(d*x+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,4,0]%%} / %%{1,[0,0,0,4]%%} Error: Bad Argument
Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \left(a + b \left(c + \frac{d}{x} \right)^{3/2} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c+d/x)^(3/2))^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/76_1.1.5.1

Test file number 76

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a + b\sqrt{c + dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*(d*x^2+c)^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/76_1.1.5.1

Test file number 76

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{c+dx}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x+c))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x+c))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + \frac{b}{c+dx}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2`

Test file number 77

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(a + \frac{b}{c+dx}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2`

Test file number 77

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int x^3 \left(a + \frac{b}{c + dx} \right)^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b/(d*x+c))^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[
0,3,1,0]%%} / %%{1,[0,0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int x^2 \left(a + \frac{b}{c + dx} \right)^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b/(d*x+c))^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,2,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int x \left(a + \frac{b}{c + dx} \right)^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b/(d*x+c))^p,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[
0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx} \right)^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b/(d*x+c))^p/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[
0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{(c+dx)^2}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x+c)^2)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{(c+dx)^2}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x+c)^2)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + \frac{b}{(c+dx)^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(a + \frac{b}{(c+dx)^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{b}{c+dx^2}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x^2+c))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(a + \frac{b}{c+dx^2}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b/(d*x^2+c))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{a + \frac{b}{c+dx^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x^2+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\left(a + \frac{b}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(a + \frac{b}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int x^3 \left(a + \frac{b}{c+dx^2}\right)^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b/(d*x^2+c))^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[
0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2`

Test file number 77

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(a + \frac{b}{(c+dx^2)^2} \right)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(a + \frac{b}{(c+dx^2)^2} \right)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[1,0]:[1,0,%%{1,[1,1]%%}]%%},[0,1]%%}+%%{%%[1,[0,1]%%]},[0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1
]%%}},[0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 239

Giac [**F(-2)**]

Exception generated.

$$\int \frac{x^4}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^4/(a+b/(d*x^2+c)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1
]%%}},[0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a + \frac{b}{(c+dx^2)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \left(a + \frac{b}{(c+dx^2)^2} \right)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(a+b/(d*x^2+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1,0]:[1,0,%%{1,[1,1]%%}}]%%},[0,1]%%}+%%{%%{1,[0,1]%%}},[0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(c+d\sqrt{a+bx^2})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c+d*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Recursive assumption sageVARc>=(-`u`sageVARd) ignoredRecursive assumption sageVARc>=(-`u`sageVARd) ignore dRecurziv`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c + d\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c+d*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Recursive assumption sageVARc>=(-`
u`*sageVARd) ignoredRecursive assumption sageVARc>=(-` u`*sageVARd) ignore
dRecurshiv`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c + d\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c+d*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (c + d\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x^2/(c+d*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 288

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (c + d\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^4/(c+d*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int (A + Bx + Cx^2) \left(a + \frac{b}{c + dx} \right)^p dx = \text{Exception raised: RuntimeError}$$

input `integrate((C*x^2+B*x+A)*(a+b/(d*x+c))^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{e(a+bx^2)}{c+dx^2}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int x^5 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{2, [0,5,0]%%}, [2,0,0,0]%%}+%%{%%{[%%{-4, [0,4,0]%%},
0]: [1,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int x^3 \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[2, [0,4,0]%%}, [2,0,0,0]%%}+%%{%%[%%{-4, [0,3,0]%%},0]: [1,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int x \left(\frac{e(a + bx^2)}{c + dx^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[2, [0,3,0]%%}, [2,0,0,0]%%}+%%{%%[%%{-4, [0,2,0]%%},0]: [1,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3`

Test file number 78

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{2, [0,1,0]%%}, [6,0,0]%%}+%%{%%{[-4,0]: [1,0,%%{-1, [1
,1,1]%%}}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{2,[4,1,4]%%},[2,7,0]%%}+%%{%%}{-8,[3,2,4]%%},[2,6,1]%%}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}}{x^7} dx = \text{Exception raised: TypeError}$$

input `integrate((e*(b*x^2+a)/(d*x^2+c))^(3/2)/x^7,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{2,[5,1,5]%%},[2,9,0]%%}+%%{%%{-10,[4,2,5]%%},[2,8
,1]%%}+%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_gen-
eral_binomial/78_1.1.5.3

Test file number 78

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \sqrt{\frac{e(a+bx^2)}{c+dx^2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_gen-
eral_binomial/78_1.1.5.3

Test file number 78

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{2,[1,0,0]%%},[2,1,0]%%}+%%{%%{[-4,0]:[1,0,%%{-1,[1,1,1]%%}}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3`

Test file number 78

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\left(\frac{e(ax^2+b)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{2,[1,0,0]%%},[2,1,0]%%}+%%{%%{[-4,0]:[1,0,%%{-1,[1,1,1]%%}}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3`

Test file number 78

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{2,[1,0,0]%%},[2,1,0]%%}+%%{%%{-4,0]:[1,0,%%{-1,[1,1,1]%%}}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x \left(\frac{e(a+bx^2)}{c+dx^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{2,[1,2,2]%%},[2,1,3,0]%%}+%%{%%{-4,[2,1,2]%%},[2,1,2,1]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{2,[1,0,0]%%},[6,1,0,0]%%}+%%{%%}{[-4,0]:[1,0,%%{-1,[1,1,1]%%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^5 \left(\frac{e(a+bx^2)}{c+dx^2} \right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^5/(e*(b*x^2+a)/(d*x^2+c))^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{2,[1,4,4]%%},[2,1,7,0]%%}+%%{%%{-8,[2,3,4]%%},[2,
1,6,1]%%}
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/78_1.1.5.3

Test file number 78

Integral number in file 91

Giac [**F(-2)**]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x)^(1/2)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 \sqrt{bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/81_1.1.6.3

Test file number 81

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x^4(c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((b*x^2+a*x)^(1/2)/x^4/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2859
40382 icas_eval sage2285.953 NTL factor begin285.953 NTL factor end285.953
NTL factor begin285.953 NTL factor endPsr 9.14286, Mod 191.109, Heu 11764
.9, Min9.14286GCD d`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x^2(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/x^2/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x^3(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/x^3/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x(a + bx)}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((x*(b*x+a))^(1/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^2}}{cx + dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(1/2)/(d*x^2+c*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x(a + bx)}}{cx + dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x*(b*x+a))^(1/2)/(d*x^2+c*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a*x)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^5(c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^5/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2796
51166 icas_eval sage2279.664 NTL factor begin279.665 NTL factor end279.665
NTL factor begin279.665 NTL factor endPsr 9.14286, Mod 191.109, Heu 11764
.9, Min9.14286GCD d`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^3(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^3/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{3/2}}{x^4(c + dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(3/2)/x^4/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{x(ax + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a*x)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Im-
proper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x^4(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/x^4/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax + bx^2)^{5/2}}{x^5(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a*x)^(5/2)/x^5/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c+dx)\sqrt{ax+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(d*x+c)/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(c+dx)^2\sqrt{ax+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c+dx)^2 \sqrt{ax+bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+dx)^2 \sqrt{ax+bx^2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/x^3/(d*x+c)^2/(b*x^2+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1603
70139 icas_eval sage2Psr 0, Mod 3.16228, Heu 6.4, MinOGCD dim 3 degree 1 p
srgcdop 0 heuop 6.4 modgcdop 8,125// Using PSR gcd 160.382 NTL factor begi
n160.382 NTL factor`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{ax + bx^2} (c^2x^2 + 2cdx^3 + d^2x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*x^2+a*x)^(1/2)/(d^2*x^4+2*c*d*x^3+c^2*x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x(a + bx)} (c^2x^2 + 2cdx^3 + d^2x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x*(b*x+a))^(1/2)/(d^2*x^4+2*c*d*x^3+c^2*x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/83_1.1.6.5

Test file number 83

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx)\sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)\sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{x(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/x/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{ax + bx^2}}{x^4(c + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((B*x+A)*(b*x^2+a*x)^(1/2)/x^4/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 3673
40582 icas_eval sage2367.352 NTL factor begin367.352 NTL factor end367.352
NTL factor begin367.352 NTL factor endPsr 10.125, Mod 282.843, Heu 26214.
4, Min10.125GCD dim`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.6_Improper_linear_binomial/85_1.1.6.7

Test file number 85

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a+bx^3}{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b*x^3+a)/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7_Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 386

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a+bx^5}{x^3}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b*x^5+a)/x^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7_Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a-bx^3}{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((-b*x^3+a)/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7_Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 390

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\frac{a-bx^5}{x^3}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((-b*x^5+a)/x^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.7 Improper_general_binomial/86_1.1.7.1

Test file number 86

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^5/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{d+ex}{\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^3/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^4/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{\sqrt{cd^2+2cdex+ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{cd^2 + 2cdex + ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{cd^2 + 2cdex + ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^4/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^5/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^3}{(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 (cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^3/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^4/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(cd^2+2cdex+ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (cd^2 + 2cdex + ce^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(3/2),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^7}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^7/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^5/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^6}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^6/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^4/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(cd^2+2cdex+ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cd^2 + 2cdex + ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 (cd^2 + 2cdex + ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*e^2*x^2+2*c*d*e*x+c*d^2)^(5/2),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\left(\frac{be}{2c} + ex\right) \sqrt{\frac{b^2}{4c} + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(2/(1/2*b*e/c+e*x)/(b^2/c+4*b*x+4*c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex) \sqrt{\frac{b^2}{4c} + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(2/(e*x+d)/(b^2/c+4*b*x+4*c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 343

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,0,2]%%}, [4]%%}+%%{%%{%%{-4, [0,1,1]%%},0}: [1
,0,%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 206

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,3]%%},[6]%%}+%%{%%{%%{-6,[0,1,2]%%},0):[1
,0,%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 207

Giac [**F(-2)**]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/(e*x+d)^6,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,5]%%},[10]%%}+%%{%%{%%{-10,[0,1,4]%%},0):
[1,0,%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,10]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%,[4,4]%%}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,4]%%},[8]%%}+%%{%%{[-8,[0,1,3]%%},0]:[1,0,%%{-1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^7} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%}, 0]: [1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)^8} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)^8,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,6]%%},[12]%%}+%%{%%{[-12,[0,1,5]%%},0]:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdx^2)^{5/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^6,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,15]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[6,6
]%%}+%%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,4]%%}, [8]%%}+%%{%%{[%%{-8, [0,1,3]%%}, 0]: [1,0,%%{-1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^8} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%}, 0]: [1,0,%%{-1`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^9} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^9,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,6]%%}, [12]%%}+%%{%%{[%%{-12, [0,1,5]%%}, 0]: [1,0,%%{`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c`

Test file number 91

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{(d + ex)^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/(e*x+d)^10,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,7]%%},[14]%%}+%%{%%{[-14,[0,1,6]%%},0]:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^6,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^7} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^8} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{1,[0,0,20]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[8,8]%%}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^9} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^9,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,0,5]%%}, [10]%%}+%%{%%{[%%{-10, [0,1,4]%%},0]: [1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^{10}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^10,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,6]%%},[12]%%}+%%{%%{%%{-12,[0,1,5]%%},0):
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 245

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdx^2)^{7/2}}{(d + ex)^{11}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^11,x, algorithm=
"giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,7]%%},[14]%%}+%%{%%{%%{-14,[0,1,6]%%},0):
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{7/2}}{(d + ex)^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(7/2)/(e*x+d)^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,8]%%},[16]%%}+%%{%%{%%{-16,[0,1,7]%%},0}:[1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)\sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,1]%%},[2]%%}+%%{%%{%%{-2,[0,1,0]%%},0}:[1,0,%%{-1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,3]%%},[6]%%}+%%{%%{%%{-6,[0,1,2]%%},0}: [1,0,%%{-1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^4 \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,4]%%},[8]%%}+%%{%%{[-8,[0,1,3]%%},0]:[1
,0,%%{-1
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^5}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{16,[5,5,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2
]%%}+%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{8,[4,4,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{2,[3,3,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,1,4]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [2,2]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{d+ex}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[1,1,0]%%},[2,0]%%}+%%{%%{%%{-2,[0,0,1]%%},0}:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 260

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(d+ex)^6}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^6/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{8,[6,6,8]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[4,4]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^5}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{2,[5,5,8]%%},0]:[1,0,%%{-1,[1,1,1]%%}}%%},[4,4]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^4}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{1,[2,2,8]%%},0]:[1,0,%%{-1,[1,1,1]%%}}%%},[4,4]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[2,2,0]%%},[4,0]%%}+%%{%%{%%{-4,[1,1,1]%%},0}: [1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[2,2,0]%%},[4,0]%%}+%%{%%{%%{-4,[1,1,1]%%},0}:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 269

Giac [**F(-2)**]

Exception generated.

$$\int \frac{1}{(\sqrt{2} + x)^2 (1 + x + x^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(2^(1/2)+x)^2/(x^2+x+1)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[3884404797504,5496426689544]:[1,0,-2]%%},[2]%%}+%%{%%
%{[448093
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 511

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 577

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 578

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 586

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 597

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^2 \sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 614

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx+cx^2)^{4/3}}{(d+ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(4/3)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,2,0,0,0]}+%%{-1,[0,1,0,1,1,1,0]}+%%{1,[0,
1,0,0,2,0`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d`

Test file number 92

Integral number in file 684

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/4}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(5/4)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,1,2,0,0,0]}%%}+%%{-1, [0,1,0,1,1,1,0]}%%}+%%{1, [0,1,0,0,2,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 739

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - d^2x^2}}{(1 + dx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+1)^(1/2)/(d*x+1)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*(-(2*atan(i)-2*i)/sageVARd^2*sign((sageVARd*sageVARx+1)^-1)*sign(sageVARd)-2*(sqrt(2*sageVARd*(sageVARd*sageVARx+1)^-1/sageVARd-1)*sign((sageVARd*sageVARx+1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - d^2 x^2)^{3/2}}{(1 + dx)^2 (e + fx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-d^2*x^2+1)^(3/2)/(d*x+1)^2/(f*x+e)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: abs(sageVARd)*((-2*sageVARf*sqrt(2*sageVARd*(sageVARd*sageVARx+1)^-1/sageVARd-1)*sign((sageVARd*sageVARx+1)^-1)*sign(sageVARd)-2*sageVARd*sageVARE*sqrt(2*sageVARd*(sageVAR`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 + dx)\sqrt{e + fx}\sqrt{4 - d^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+2)/(f*x+e)^(1/2)/(-d^2*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2+dx)^3 \sqrt{e+fx} \sqrt{4-d^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x+2)^3/(f*x+e)^(1/2)/(-d^2*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+cdx)^{7/2}(f-cfx)^{3/2}}{\sqrt{1-c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*d*x+d)^(7/2)*(-c*f*x+f)^(3/2)/(-c^2*x^2+1)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + cdx)^{3/2}(f - cfx)^{3/2}}{\sqrt{1 - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c*d*x+d)^(3/2)*(-c*f*x+f)^(3/2)/(-c^2*x^2+1)^(1/2),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - cfx)^{3/2}}{\sqrt{d + cdx}\sqrt{1 - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c*f*x+f)^(3/2)/(c*d*x+d)^(1/2)/(-c^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{(2 + dx)^2(e + fx)^n}{\sqrt{4 - d^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+2)^2*(f*x+e)^n/(-d^2*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^n}{(2 + dx)^2 (4 - d^2 x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^n/(d*x+2)^2/(-d^2*x^2+4)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,4,0,0]}%%}+%%{3, [0,1,2,0,0]}%%}+%%{3, [0,1,0,0,0]}%%} / %%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + dx)^2 (e + fx)^n}{\sqrt{1 - d^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+1)^2*(f*x+e)^n/(-d^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^n (1 - d^2 x^2)^{3/2}}{(1 - dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^n*(-d^2*x^2+1)^(3/2)/(-d*x+1)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int (c - acx)^p \sqrt{1 - a^2 x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b

Test file number 94

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx^2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(1/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b

Test file number 94

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx^2)^{3/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(3/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b

Test file number 94

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx^2)^{5/2}}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(b*x^2+a)^(5/2)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b`

Test file number 94

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b`

Test file number 94

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{4-d^2x^2}}{(2-dx)\sqrt{e+fx}} dx = \text{Exception raised: TypeError}$$

input `integrate((-d^2*x^2+4)^(1/2)/(-d*x+2)/(f*x+e)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/94_1.2.1.3_b`

Test file number 94

Integral number in file 290

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{3/2}\sqrt{f+gx}}{a+cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(1/2)/(c*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c`

Test file number 95

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}\sqrt{f+gx}}{a+cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(1/2)/(c*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)*(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ade + (cd^2 + ae^2)x + cdex^2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2)/x/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x/(e*x+d)^3,x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x^2(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x^2/(e*x+d)^3,x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,0,1]%%}, [6,0]%%}+%%{%%{[%%{-2, [0,1,0]%%},0]:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x^3(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x^3/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,3,9]%%},[2,4]%%}+%%{%%{-4,[1,5,7]%%},[2,3]%%}+%%{%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{x^4(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x^4/(e*x+d)^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,4,11]%%},[2,5]%%}+%%{%%{-5,[1,6,9]%%},[2,4]%%
%%}+%%{%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdx^2)^{3/2}}{x^5(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/x^5/(e*x+d)^3,x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,5,13]%%},[2,6]%%}+%%{%%{-6,[1,7,11]%%},[2,5]%%
%%}+%%{%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x^2(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^2/(e*x+d)^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,0,13]%%},0] : [1,0,%%{-1, [1,1,1]%%}]%%}, [6,6
]%%}+%%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x^3(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^3/(e*x+d)^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,3,9]%%},[2,4]%%}+%%{-4,[1,5,7]%%},[2,3]%%
%}+%%{%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdx^2)^{5/2}}{x^4(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^4/(e*x+d)^4,x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,4,11]%%},[2,5]%%}+%%{-5,[1,6,9]%%},[2,4]%%
%}+%%{%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x^5(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^5/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,5,13]%%}, [2,6]%%}+%%{%%}{-6, [1,7,11]%%}, [2,5]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x^6(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^6/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,6,15]%%}, [2,7]%%}+%%{%%}{-7, [1,8,13]%%}, [2,6]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{5/2}}{x^7(d + ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2)/x^7/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0, 7, 17]%%}, [2, 8]%%}+%%{%%}{-8, [1, 9, 15]%%}, [2, 7]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x \sqrt{ade + (cd^2 + ae^2)x + cdex^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,0,5]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,1]%%},[2]%%}+%%{%%{-2,[0,1,0]%%},0}:[1,0,%%{-1`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,1,5]%%},[2,2]%%}+%%{%%{-2,[1,3,3]%%},[2,1]%%}+%%{%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,0,1]%%},[6,0]%%}+%%{%%{[%%{-2,[0,1,0]%%},0]:[1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(d+ex)\sqrt{ade+(cd^2+ae^2)x+cde x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,3,9]%%},[2,4]%%}+%%{%%{-4,[1,5,7]%%},[2,3]%%
%}+%%{%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[4,4,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,0]
%%}+%%{%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[3,3,0]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [2,0]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,1,4]%%},0}: [1,0,%%{-1,[1,1,1]%%}]%%}, [2,2]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,1,0]%%},[2,0]%%}+%%{%%{[-2,[0,0,1]%%},0]:[1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,1,5]%%}, [2,3]%%}+%%{%%{-2, [2,3,3]%%}, [2,2]%%
%}+%%{%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^2 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,1,0]%%}, [6,0]%%}+%%{%%{-2, [0,0,1]%%}, 0}:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex}{x^3 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [1, 1, 11]%%}, [2, 7]%%}+%%{%%{-4, [2, 3, 9]%%}, [2, 6]%%}+%%{%%{-4, [2, 3, 9]%%}, [2, 6]%%}+%%{%%{-4, [2, 3, 9]%%}, [2, 6]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d + ex)^2}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [5, 5, 0]%%}, 0]: [1, 0, %%{-1, [1, 1, 1]%%}]%%}, [2, 0]%%}+%%{%%{-1, [1, 1, 1]%%}]%%}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[4,4,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,0]%%}+%%{
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x*(e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{2,[3,3,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}], [2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[1,1,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}], [2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,1,5]%%},[2,3]%%}+%%{%%{-2,[2,3,3]%%},[2,2]%%}+%%{%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x^2(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[1,1,0]%%},[6,0]%%}+%%{%%{%%{-2,[0,0,1]%%},0}: [1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x^3(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1,[1,1,11]%%},[2,7]%%}+%%{%%}{-4,[2,3,9]%%},[2,6]%%}+%%{%%}{%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{x^4(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/x^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,1,14]%%}, [2,9]%%}+%%{%%{-5, [2,3,12]%%}, [2,8]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [6,6,0]%%}, 0]: [1,0,%%{-1, [1,1,1]%%}]%%}, [2,0]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d+ex)^3}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [5,5,0]%%},0} : [1,0,%%{-1, [1,1,1]%%}]%%}, [2,0]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d+ex)^3}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{8, [4,4,4]%%},0} : [1,0,%%{-1, [1,1,1]%%}]%%}, [2,2]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{2,[3,3,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^3/x/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^2(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^3/x^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [1,1,0]%%}, [6,0]%%}+%%{%%{%%{-2, [0,0,1]%%},0}:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^3(adex+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/x^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%%{1,[1,1,11]%%},[2,7]%%}+%%%{-4,[2,3,9]%%},[2,6]%%}+%%%{

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1

Test file number 96

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^4(adex+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/x^4/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%%{1,[1,1,14]%%},[2,9]%%}+%%%{-5,[2,3,12]%%},[2,8]%%}+%%%{

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^3}{x^5 (ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3/x^5/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1,[1,1,17]%%},[2,11]%%}+%%{%%}{-6,[2,3,15]%%},[2,10]%%}+%%`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/96_1.2.1.3_d1`

Test file number 96

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}}{(d+ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2)/(e*x+d)^4,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,3,0,0]%%},[6,1]%%}+%%{%%{%%{-6,[0,2,1,0]%%},
,0]:[1,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(cd^2 - bde - be^2x - ce^2x^2)^{3/2}}{(d + ex)^6} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)*(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(-3/2)/(e*x+d)^6,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,4,0,0]%%},[8,1]%%}+%%{%%{%%{-8,[0,3,1,0]%%},
,0]:[1,0,
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^3 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(e*x+d)^3/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[6,3,13,0]%%}+%%{-12,[5,4,12,1]%%}+%%{60,[4,5,11
,2]%%}+%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)^4 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(e*x+d)^4/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[8,4,16,0]%%}+%%{-16,[7,5,15,1]%%}+%%{112,[6,6,1
4,2]%%}+%`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1,[6,0,10,2]%%}+%%{-10,[5,1,9,3]%%}+%%{41,[4,2,8,4]%%}+%%
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d+ex)(f+gx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)\sqrt{cd^2-bde-be^2x-ce^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*x+d)^2/(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{1,[5,5,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}}%%},[2,0,0,0]%%}+`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[4,4,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,0,
0,0]%%}+
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[%%{2,[3,3,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 284

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[%%{1,[1,1,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[1,1,5]%%},[2,1,3,0]%%}+%%{%%{2,[2,3,3]%%},[2,1,2,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[1,1,11]%%},[2,3,7,0]%%}+%%{%%{4,[2,3,9]%%},[2,3,6,0]%%}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 288

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{2,[5,5,9]%%},{[4,4]%%}+%%{%%}{-8,[6,7,7]%%},{[4,3]%%}+%%{%%}{%%
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2`

Test file number 97

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[2,2,8]%%},0}: [1,0,%%{-1,[1,1,1]%%}], [4,4
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 290

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cdex^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[2,2,0]%%}, [4,0]%%}+%%{%%{%%{-4,[1,1,1]%%},0}:
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 291

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,2,0]%%},[4,0]%%}+%%{%%{%%{-4,[1,1,1]%%},0}:[1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 292

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cdex^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,2,10]%%},[4,2,6,0]%%}+%%{%%{%%{-4,[3,4,8]%%},[4,2,5,0]%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 293

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/x,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*x+A)*(c*x^2+b*x+a)^(5/2)/x,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
alsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/98_1.2.1.3_e1

Test file number 98

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/x/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x/(e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^2(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x^2/(e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^3(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x^3/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex)(a+bx+cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x+d)/(c*x^2+b*x+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(3/2)/(e*x+d)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x)^(5/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/100_1.2.1.3_f0

Test file number 100

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 606

Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 616

Giac [F(-2)]

Exception generated.

$$\int \frac{(b + 2cx)(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((2*c*x+b)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 624

Giac [F(-2)]

Exception generated.

$$\int \frac{b + 2cx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((2*c*x+b)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 632

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 874

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 884

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{(d + ex)^5} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 888

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 893

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(7/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 902

Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 977

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt[4]{a + bx + cx^2}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/4)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,1,1,0,0]%%}+%%{1,[0,0,0,1,1,1]%%} / %%{1,[0,0,
0,0,1,0]%`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1`

Test file number 101

Integral number in file 1101

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/4}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/4)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,3,0,0]%%}+%%{1,[0,0,0,3,1,1]%%} / %%{1,[0,0,0,0,1,0]%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 1106

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{5/4}}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(5/4)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,2,0,0]%%}+%%{-1,[0,1,0,1,1,1,0]%%}+%%{1,[0,1,0,0,2,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 1111

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^p}{(d + ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^p/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,1,1,0,0]%%}+%%{1,[0,0,0,1,1,1]%%} / %%{1,[0,0,0,0,1,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 1123

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{2 + 3x + x^2}}{(5 - 2x)^2(4 + 3x)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+3*x+2)^(1/2)/(5-2*x)^2/(4+3*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{3404825447,[6,0]%%}+%%{%%{[7993938006,0]:[1,0,-7]%%},[5,0]%%}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 504

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(5-2x)^2(4+3x)^3\sqrt{2+3x+x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(5-2*x)^2/(4+3*x)^3/(x^2+3*x+2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{113472617672169,[6,1]%%}+%%{%%{[266413971925962,0]:[1,0,
-7]%%},[5`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^2 \left(\frac{3e^2f^2}{2} - 15defg + \frac{25d^2g^2}{2} + 4eg(-3ef + \frac{5dg}{2})x - e^2g^2x^2 \right)^{3/2}}{(d+ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(3/2*e^2*f^2-15*d*e*f*g+25/2*d^2*g^2+4*e*g*(-3*e*f+5/2
*d*g)*x-e^2*g^2*x^2)^(3/2)/(e*x+d)^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{[-11025,0]:%%{[1,0,-12,0]:[1,0,-16,0,16]%%}/8%%},[0
,5]%%},[
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^{5/2} \sqrt{f+gx}}{a+bx+cx^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^(5/2)*(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2} \sqrt{f + gx}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 343

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex} \sqrt{f + gx}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(1/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2}(f + gx)^{3/2}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(5/2)*(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 348

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{3/2}(f + gx)^{3/2}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(3/2)*(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d+ex}(f+gx)^{3/2}}{a+bx+cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(1/2)*(g*x+f)^(3/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^{3/2}}{\sqrt{d+ex}(a+bx+cx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^(3/2)/(e*x+d)^(1/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{7/2}(f + gx)^{5/2}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(7/2)*(g*x+f)^(5/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^{5/2}(f + gx)^{5/2}}{a + bx + cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^(5/2)*(g*x+f)^(5/2)/(c*x^2+b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^3*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^2*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{(d+ex)(f+gx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{(d+ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 460

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 484

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 485

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 486

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 487

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 488

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{(d + ex)(f + gx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(e*x+d)/(g*x+f)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 490

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{5/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(5/2)/(e*x+d)/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 491

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 492

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 493

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 494

Giac [F(-2)]

Exception generated.

$$\int \frac{f + gx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 495

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(f + gx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 497

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 502

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 504

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d+ex)^3(f+gx)^3\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)^3/(g*x+f)^3/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int \frac{(f+gx)^4}{(d+ex)(a+bx+cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^4/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 579

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3}{(d + ex)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3/(e*x+d)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 580

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex)(f + gx)(a + bx + cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 584

Giac [F(-2)]

Exception generated.

$$\int \frac{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}}{(d + ex)(f + gx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2)/(e*x+d)/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 762

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^2}{(f + gx)\sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2/(g*x+f)/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 769

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^2 \sqrt{cd^2 - bde - be^2x - ce^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)^2/(-c*e^2*x^2-b*e^2*x-b*d*e+c*d^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 770

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade + (cd^2 + ae^2)x + cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[%%{1,[5,5,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}}%%},[2,0,
0,0]%%}+`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 773

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[4,4,0]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,0,0,0]%%}+
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 774

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cdex^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{2,[3,3,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 775

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{1,[1,1,4]%%},0]:[1,0,%%{-1,[1,1,1]%%}]%%},[2,2]
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 776

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[1,1,5]%%},[2,1,3,0]%%}+%%{%%{2,[2,3,3]%%},[2,1,2,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 777

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)^3(ade+(cd^2+ae^2)x+cde x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[1,1,11]%%},[2,3,7,0]%%}+%%{%%{4,[2,3,9]%%},[2,3,6,0]%%}`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 779

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^3}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*(g*x+f)^3/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{2,[5,5,9]%%},[4,4]%%}+%%{%%}{-8,[6,7,7]%%},[4,3]%%}+%%{%%}{%%`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f`

Test file number 103

Integral number in file 780

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*(g*x+f)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[2,2,8]%%},0]:[1,0,%%{-1,[1,1,1]%%}], [4,4
%%}+%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 781

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2(f+gx)}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)^2*(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[2,2,0]%%}, [4,0]%%}+%%{%%{%%{-4,[1,1,1]%%},0):
[1,0,%%{
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,2,0]%%},[4,0]%%}+%%{%%{-4,[1,1,1]%%},0}:[1,0,%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 783

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^2}{(f+gx)(ade+(cd^2+ae^2)x+cde x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2/(g*x+f)/(a*d*e+(a*e^2+c*d^2)*x+c*d*e*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,2,10]%%},[4,2,6,0]%%}+%%{%%{-4,[3,4,8]%%},[4,2,5,0]%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 784

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 \left(\frac{3e^2 f^2}{2} - 15defg + \frac{25d^2 g^2}{2} + 4eg \left(-3ef + \frac{5dg}{2} \right) x - e^2 g^2 x^2 \right)^{3/2}}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^2*(3/2*e^2*f^2-15*d*e*f*g+25/2*d^2*g^2+4*e*g*(-3*e*f+5/2*d*g)*x-e^2*g^2*x^2)^(3/2)/(e*x+d)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[-11025,0]:%{[1,0,-12,0]:[1,0,-16,0,16]%%}/8%%},[0,5]%%},[
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 865

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 - x + 2x^2}}{2 + 3x + 5x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3-x+2x^2}}{(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3-x+2x^2}}{(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(3-x+2x^2)^{3/2}}{2+3x+5x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{3/2}}{(2 + 3x + 5x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{174900625,[8]%%}+%%{%%{[-419761500,0]:[1,0,-2]%%},[7]%%}+%%{-68`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{3/2}}{(2 + 3x + 5x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{5/2}}{2 + 3x + 5x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,inf
inity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{5/2}}{(2 + 3x + 5x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{15625,[8]%%}+%%{%%{[-37500,0]:[1,0,-2]%%},[7]%%}+%%{-6
1250,[6]%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(3 - x + 2x^2)^{5/2}}{(2 + 3x + 5x^2)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-x+2x^2}(2+3x+5x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(1/2)/(5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-x+2x^2}(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3-x+2x^2}(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(1/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]proot error [1.0,infinity,infinity,inf
inity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{3/2}(2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(3/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2}(2+3x+5x^2)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2} (2+3x+5x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3-x+2x^2)^{5/2} (2+3x+5x^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2*x^2-x+3)^(5/2)/(5*x^2+3*x+2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0, infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,infinity,inf`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.4/105_1.2.1.4_b

Test file number 105

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + cx^2}}{x(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+a)^(1/2)/x/(f*x^2+e*x+d),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/106_1.2.1.5

Test file number 106

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/106_1.2.1.5

Test file number 106

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{x(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+a)^(3/2)/x/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + cx^2)^{3/2}}{x^2(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+a)^(3/2)/x^2/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + cx^2}(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+cx^2)^{3/2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d-fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{x(d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/x/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x(d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
Error:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^2(d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x^2/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{1 - x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(-x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
Error:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx+cx^2}(d-fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (a + bx + cx^2)^{3/2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d - fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5`

Test file number 106

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{\sqrt{a + bx + cx^2} (d - fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)^(1/2)/(-f*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5`

Test file number 106

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + ex + fx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+e*x+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{poly1[-4, [3,2,0]]}+%%{16, [1,3,1]},%%{4, [4,2,0]}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(a + bx + cx^2)\sqrt{d + fx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(c*x^2+b*x+a)/(f*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{poly1[%%{-4,[3,2,0]}]+%%{16,[1,3,1]}},%%{4,[4,2,
0]}+%%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{(g + hx)\sqrt{a + bx + cx^2}}{(ad + bdx + cd^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((h*x+g)*(c*x^2+b*x+a)^(1/2)/(c*d*x^2+b*d*x+a*d)^(3/2),x, algorit
hm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}\sqrt{c + dx^2}}{x} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((b*x+a)^2)^(1/2)*(d*x^2+c)^(1/2)/x,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a^2 + 2abx + b^2x^2}\sqrt{c + ex + dx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((b*x+a)^2)^(1/2)*(d*x^2+e*x+c)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
alsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2\sqrt{a + bx + cx^2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{x\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx+cx^2}}{d+ex+fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}}{x(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)/x/(f*x^2+e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
alsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{d + ex + fx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x/(f*x^2+e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/106_1.2.1.5

Test file number 106

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2}}{x^2(d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)/x^2/(f*x^2+e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/106_1.2.1.5

Test file number 106

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{a+bx+cx^2}(d+ex+fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+b*x+a)^(1/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + bx + cx^2)^{3/2} (d + ex + fx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2+b*x+a)^(3/2)/(f*x^2+e*x+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/106_1.2.1.5

Test file number 106

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)^2}{x\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x^2+e*x+d)^2/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/106_1.2.1.5

Test file number 106

Integral number in file 174

Giac [**F(-2)**]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2+Dx^3)}{c+dx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((b*x^2+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2+Dx^3)}{(c+dx)^5} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx^2)^{3/2}(A+Bx+Cx^2+Dx^3)}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{5/2} (A + Bx + Cx^2 + Dx^3)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(5/2)*(D*x^3+C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/108_1.2.1.7_a

Test file number 108

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx + cx^2}(d + ex + fx^2)}{g + hx} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(1/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx + cx^2)^{3/2} (d + ex + fx^2)}{g + hx} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2+b*x+a)^(3/2)*(f*x^2+e*x+d)/(h*x+g),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2}{(g + hx)^2 \sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x^2+e*x+d)/(h*x+g)^2/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{d + ex + fx^2 + gx^3}{x \sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x^3+f*x^2+e*x+d)/x/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)\sqrt{a + bx^2}(A + Bx + Cx^2)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2\sqrt{a + bx^2}(A + Bx + Cx^2)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{a + bx^2} (A + Bx + Cx^2)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx^2} (A + Bx + Cx^2)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2)}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2)}{x(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(A + Bx + Cx^2)}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2}(A + Bx + Cx^2)}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+bx^2}(A+Bx+Cx^2)}{x^2(c+dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(1/2)*(C*x^2+B*x+A)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{(c+dx)(a+bx^2)^{3/2}(A+Bx+Cx^2)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 (a + bx^2)^{3/2} (A + Bx + Cx^2)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 (a + bx^2)^{3/2} (A + Bx + Cx^2)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x^2+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2)^{3/2} (A + Bx + Cx^2)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x^2+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{c + dx} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^2/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^4(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^4/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^5(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^5/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^2(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^3(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^3/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:16.7888 interp horner, loop index 0
16.7889 interp resultant evaled at -3, 0% done22.132 interp dd 22.2036 int
erp build`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2)^{3/2} (A + Bx + Cx^2)}{x^4(c + dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x^2+a)^(3/2)*(C*x^2+B*x+A)/x^4/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(A + Bx + Cx^2)}{x\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(C*x^2+B*x+A)/x/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2 (A + Bx + Cx^2)}{x\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(C*x^2+B*x+A)/x/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx + Cx^2)}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx + Cx^2)}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx + Cx^2)}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{x(c + dx)\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/x/(d*x+c)/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(c + dx)^2\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(d*x+c)^2/(b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)(A + Bx + Cx^2)}{x(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*(C*x^2+B*x+A)/x/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2(A + Bx + Cx^2)}{x(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*(C*x^2+B*x+A)/x/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(A + Bx + Cx^2)}{(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx + Cx^2)}{(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx + Cx^2)}{(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx + Cx^2)}{(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(C*x^2+B*x+A)/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/1.2.1.8/110_1.2.1.8_a

Test file number 110

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{x(c + dx)(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/x/(d*x+c)/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a`

Test file number 110

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(A + Bx + Cx^2)}{(c + dx)^2(a + bx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(C*x^2+B*x+A)/(d*x+c)^2/(b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Recursive assumption sageVARa>=((-sageVARb*sageVARc^2*sageVARd^2*t_nostep^2-2*sageVARb*sageVARc*sageVARd*t_nostep-sage`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/110_1.2.1.8_a`

Test file number 110

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(c - dx)(c + dx)^2 \sqrt{c^2 - d^2x^2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(-d*x+c)/(d*x+c)^2/(-d^2*x^2+c^2)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -1/abs(sageVARD)*(-1/4*(sageVARA*sageVARD^3+sageVARD*sageVARc^3+sageVARB*sageVARc*sageVARD^2+sageVARC*sageVARc^2*sageVARD)/sageVARc^3/sageVARD^3/sqrt(2*sageVARc*sageVARD*(`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/111_1.2.1.8_b

Test file number 111

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{Ac + (Bc - Ad)x + (cC - Bd)x^2 - (Cd - cD)x^3 - dDx^4}{(c - dx)^2(c + dx)^2 \sqrt{c^2 - d^2x^2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((A*c+(-A*d+B*c)*x+(-B*d+C*c)*x^2-(C*d-D*c)*x^3-d*D*x^4)/(-d*x+c)^2/(d*x+c)^2/(-d^2*x^2+c^2)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -1/abs(sageVARD)*(-1/4*(sageVARA*sageVARD^3+sageVARD*sageVARc^3+sageVARB*sageVARc*sageVARD^2+sageVARC*sageVARc^2*sageVARD)/sageVARc^3/sageVARD^3/sqrt(2*sageVARc*sageVARD*(`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/111_1.2.1.8_b

Test file number 111

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(A+Bx)}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(A+Bx)}{(d+ex)\sqrt{a+bx+cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx}{x(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x+A)/x/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (A + Bx + Cx^2)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(A + Bx + Cx^2)}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(d + ex)(f + gx)\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(e*x+d)/(g*x+f)/(c*x^2+b*x+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.8/112_1.2.1.8_c

Test file number 112

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(2 + 5x + x^2)\sqrt{3 + 2x + 5x^2}}{(1 + 4x - 7x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2+5*x+2)*(5*x^2+2*x+3)^(1/2)/(-7*x^2+4*x+1)^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{184473632,[8]%%}+%%{%%{[421654016,0]:[1,0,-5]%%},[7]%%}
+%%{-248
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/113_1.2.1.9

Test file number 113

Integral number in file 6

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(2 + 5x + x^2)(3 + 2x + 5x^2)^{3/2}}{(1 + 4x - 7x^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((x^2+5*x+2)*(5*x^2+2*x+3)^(3/2)/(-7*x^2+4*x+1)^2,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{63274455776,[8]%%}+%%{%%{[144627327488,0]:[1,0,-5]%%},[7
]%%}+%%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_tri-
nomial/113_1.2.1.9

Test file number 113

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{cd^2 - bde + ae^2 - (2cdf - bef - bdg + 2aeg)x^2 + (cf^2 - bfg + ag^2)x^4} dx$$

= Exception raised: TypeError

input `integrate(1/(c*d^2-b*d*e+a*e^2-(2*a*e*g-b*d*g-b*e*f+2*c*d*f)*x^2+(a*g^2-b*f*g+c*f^2)*x^4),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-4,[0,0,2]%%},[1,0,3,0]%%}+%%{%%{poly1[%%{2,[0,0,1]%%},%%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/114_1.2.2.1

Test file number 114

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 952

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/115_1.2.2.2

Test file number 115

Integral number in file 968

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a}\sqrt{b} + bx^2}{a + bx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^(1/2)*b^(1/2)+b*x^2)/(b*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a}\sqrt{b} - bx^2}{a + bx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^(1/2)*b^(1/2)-b*x^2)/(b*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{7/2}}{a - cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(7/2)/(-c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2}}{a - cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(5/2)/(-c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{7/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(7/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(5/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/116_1.2.2.3_a

Test file number 116

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{d + ex^2}}{a - cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)/(-c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8 \sqrt{d + ex^2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8*(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{d + ex^2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{10} \sqrt{d + ex^2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^10*(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6 \sqrt{d + ex^2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{d + ex^2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(d + ex^2)^{3/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^2)^{3/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2}}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{10}}{\sqrt{d + ex^2} (a + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^10/(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{\sqrt{d + ex^2}(a + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt{d + ex^2}(a + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8/(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{d+ex^2}(a+cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d+ex^2)^{3/2}(a+cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8/(e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)^{3/2} (a + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(e*x^2+d)^(3/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2) \sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2)\sqrt{a - cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(e*x^2+d)/(-c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^2)\sqrt{a - cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*x^2+d)/(-c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)\sqrt{a-cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(-c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d+ex^2)(a+cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^9/(e*x^2+d)/(c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^2)(a + cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7/(e*x^2+d)/(c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^2)(a + cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \frac{x^9}{(d + ex^2)(a - cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^9/(e*x^2+d)/(-c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d + ex^2)(a - cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7/(e*x^2+d)/(-c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)(a-cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(-c*x^4+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{13}}{(d+ex^2)(a-cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^13/(e*x^2+d)/(-c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(d + ex^2)(a - cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11/(e*x^2+d)/(-c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d + ex^2)(a - cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(-c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 356

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{13}}{(d + ex^2)(a + cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^13/(e*x^2+d)/(c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}}{(d + ex^2)(a + cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11/(e*x^2+d)/(c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)(a+cx^4)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+a)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{\sqrt{d+ex^2}(ad+bdx^2+be x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(e*x^2+d)^(1/2)/(b*e*x^4+b*d*x^2+a*d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 626

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{d+ex^2}(ad+bdx^2+be x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(e*x^2+d)^(1/2)/(b*e*x^4+b*d*x^2+a*d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6 \sqrt{d+ex^2}}{a+bx^2+cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 776

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt{d + ex^2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 777

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \sqrt{d + ex^2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 778

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(d + ex^2)^{3/2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 787

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^2)^{3/2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 788

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2}}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 789

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{\sqrt{d + ex^2} (a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8/(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 804

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{\sqrt{d+ex^2}(a+bx^2+cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 805

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{d+ex^2}(a+bx^2+cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 806

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8}{(d + ex^2)^{3/2} (a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8/(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 812

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(d + ex^2)^{3/2} (a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(e*x^2+d)^(3/2)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 813

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2) \sqrt{a + bx^2 + cx^4}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*(c*x^4+b*x^2+a)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
alsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 835

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 868

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 869

Giac [F(-2)]

Exception generated.

$$\int \frac{x \sqrt{a + bx^2 + cx^4}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^4+b*x^2+a)^(1/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 870

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + bx^2 + cx^4}}{x(d + ex^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(1/2)/x/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 871

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 905

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 906

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + bx^2 + cx^4)^{3/2}}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c*x^4+b*x^2+a)^(3/2)/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 907

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x(d + ex^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 908

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^3(d + ex^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^3/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 909

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx^2 + cx^4)^{3/2}}{x^5 (d + ex^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^2+a)^(3/2)/x^5/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 910

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2}{x\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*x^2+A)/x/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
alsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 926

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 942

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(d + ex^2) \sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 943

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)\sqrt{a+bx^2+cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 945

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7}{(d+ex^2)(a+bx^2+cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7/(e*x^2+d)/(c*x^4+b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 962

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(d+ex^2)(a+bx^2+cx^4)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(e*x^2+d)/(c*x^4+b*x^2+a)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/118_1.2.2.4

Test file number 118

Integral number in file 966

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex^2)^{5/2}(A+Bx^2+Cx^4)}{a+cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(5/2)*(C*x^4+B*x^2+A)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (A + Bx^2 + Cx^4)}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(3/2)*(C*x^4+B*x^2+A)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (A + Bx^2 + Cx^4)}{a + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(1/2)*(C*x^4+B*x^2+A)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4}{\sqrt{d + ex^2}(a + cx^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^4+B*x^2+A)/(e*x^2+d)^(1/2)/(c*x^4+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2)\sqrt{a - cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(((1-c^(1/2)*x^2/a^(1/2)))/(e*x^2+d)/(-c*x^4+a)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1+c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{bx^2}}{\sqrt{a+b}}}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((1+b^(1/2)*x^2/(a+b)^(1/2))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{b}(a+b-\sqrt{b}\sqrt{a+b})x^2}{(a+b)(-\sqrt{b}+\sqrt{a+b})}}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1+b^(1/2)*(a+b-b^(1/2)*(a+b)^(1/2))*x^2/(a+b)/(-b^(1/2)+(a+b)^(1/2)))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Recursive assumption sageVARa>=(-sageVARb) ignoredRecursive assumption sageVARa>=(-sageVARb) ignoredRecursive assumpti
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(a\sqrt{a+b} + b\sqrt{a+b} + \sqrt{b}(a+b)) \left(1 - \frac{\sqrt{bx^2}}{\sqrt{a+b}}\right)}{(1-x^2)\sqrt{a+b+bx^4}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a*(a+b)^(1/2)+b*(a+b)^(1/2)+b^(1/2)*(a+b))*(1-b^(1/2)*x^2/(a+b)^(1/2)))/(-x^2+1)/(b*x^4+a+b)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{5/2} (A + Bx^2 + Cx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x^2+d)^(5/2)*(C*x^4+B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^{3/2} (A + Bx^2 + Cx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(3/2)*(C*x^4+B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + ex^2} (A + Bx^2 + Cx^4)}{a + bx^2 + cx^4} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)^(1/2)*(C*x^4+B*x^2+A)/(c*x^4+b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4}{\sqrt{d + ex^2}(a + bx^2 + cx^4)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((C*x^4+B*x^2+A)/(e*x^2+d)^(1/2)/(c*x^4+b*x^2+a),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2)\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1+c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \frac{\sqrt{cx^2}}{\sqrt{a}}}{(d + ex^2)\sqrt{a + bx^2 + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-c^(1/2)*x^2/a^(1/2))/(e*x^2+d)/(c*x^4+b*x^2+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/121_1.2.2.7

Test file number 121

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(A + Bx^2 + Cx^4)}{(c + dx^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(C*x^4+B*x^2+A)/(d*x^2+c)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(A + Bx^2 + Cx^4)}{(c + dx^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(C*x^4+B*x^2+A)/(d*x^2+c)/(c*x^4+a)^(1/2),x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quar-
tic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{x(A + Bx^2 + Cx^4)}{(c + dx^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(C*x^4+B*x^2+A)/(d*x^2+c)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx^2 + Cx^4}{x(c + dx^2)\sqrt{a + cx^4}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^4+B*x^2+A)/x/(d*x^2+c)/(c*x^4+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.2_Quartic_trinomial/122_1.2.2.8

Test file number 122

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{c}{x^2} + \frac{b}{x}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+c/x^2+b/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \frac{c}{x^2} + \frac{b}{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+c/x^2+b/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x} + cx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2)+c*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage3:=type(sage2):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Valuesym2poly/r2sym(const gen & e,const`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt{x} + cx} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2)+c*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int (a + b\sqrt[3]{x} + cx^{2/3})^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage3:=type(sage2):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int (a + b\sqrt[3]{x} + cx^{2/3})^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*x^(1/3)+c*x^(2/3))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value3*sageVARc*(2*(((7680*sageVARc^5*1/9 2160/sageVAR`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/123_1.2.3.1

Test file number 123

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 + x^3 + x^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(x^6+x^3+2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value in tegrate(1/(sageVARx^6+sageVARx^3+2),sageVARx)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{2 + x^3 + x^6} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(x^6+x^3+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/124_1.2.3.2_a

Test file number 124

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{x}\sqrt{b\sqrt{x}+ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^(1/2)/(b*x^(1/2)+a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+b\sqrt{x}+cx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^(1/2)+c*x)^(1/2)/x,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int x^{3n}(a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^(3*n)*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-256,[1,0,7,4,7,5,2,8]%%}+%%{-1280,[1,0,7,4,7,4,2,8]%%}
+%%{-256
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(df + efx)^2 (a + b(d + ex)^2 + c(d + ex)^4)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*f*x+d*f)^2/(a+b*(e*x+d)^2+c*(e*x+d)^4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument ValueError index.cc index_gcd Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^3 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)^3*(a+c*x^(2*n))^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{96,[1,0,6,4,3,5,4,1,2]%%}+%%{480,[1,0,6,4,3,4,4,1,2]%%}
+%%{960,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/127_1.2.3.3_a

Test file number 127

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^2 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)^2*(a+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{64,[1,0,4,3,1,4,3,1,1]%%}+%%{256,[1,0,4,3,1,3,3,1,1]%%}+%%{384,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/127_1.2.3.3_a

Test file number 127

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^3 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)^3*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{512,[1,0,7,4,9,5,1,8,0,3]%%}+%%{-3072,[1,0,7,4,9,5,0,9,1,2]%%}+%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int (d + ex^n)^2 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((d+e*x^n)^2*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-128,[1,0,5,3,6,4,1,6,0,2]%%}+%%{512,[1,0,5,3,6,4,0,7,1,1]%%}+%%

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b`

Test file number 128

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^3 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^3*(a+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{96,[1,0,6,4,0,3,5,4,1,2]%%}+%%{480,[1,0,6,4,0,3,4,4,1,2]%%}+%%{

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^2 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^2*(a+c*x^(2*n))^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{64,[1,0,4,3,0,1,4,3,1,1]%%}+%%{256,[1,0,4,3,0,1,3,3,1,1]%%}+%%{`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^q (a + cx^{2n})^3 dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^q*(a+c*x^(2*n))^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[5,0,12,7,0,5,7,7,3,0]%%}+%%{-7,[5,0,12,7,0,5,6,7,3,0]%%}+%%
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c`

Test file number 131

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^q (a + cx^{2n})^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x)^m*(d+e*x^n)^q*(a+c*x^(2*n))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[3,0,8,5,0,3,5,5,2,0]%%}+%%{-5,[3,0,8,5,0,3,4,5,2,0]%%}+%%{-
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c`

Test file number 131

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^q (a + cx^{2n}) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^q*(a+c*x^(2*n)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[1,0,4,3,0,1,3,3,1,0]%%}+%%{-3,[1,0,4,3,0,1,2,3,1,0]%%}+%%{-

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^2 (a + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^2*(a+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{64,[1,0,4,3,0,1,4,3,1,1]%%}+%%{256,[1,0,4,3,0,1,3,3,1,1]%%}+%%{

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n}(d+ex^n)^q(a+cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n)*(d+e*x^n)^q*(a+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{16,[0,0,6,4,19,3,4,4,4,12]%%}+%%{128,[0,0,6,4,17,4,4,4,6,11]%%}+

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c`

Test file number 131

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int x^{-1-2n}(d+ex^n)^q(a+cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-2*n)*(d+e*x^n)^q*(a+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{16,[0,0,6,4,19,3,4,4,4,12]%%}+%%{128,[0,0,6,4,17,4,4,4,6,11]%%}+

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{c} - 2\sqrt[3]{d}\sqrt[3]{x}}{c\sqrt[3]{dx^{2/3}} - c^{2/3}d^{2/3}x + \sqrt[3]{cdx^{4/3}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^(1/3)-2*d^(1/3)*x^(1/3))/(c*d^(1/3)*x^(2/3)-c^(2/3)*d^(2/3)*x+c^(1/3)*d*x^(4/3)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{%%{%%{1, [1]%%}, 0]: [1, 0, 0, %%{-1, [1]%%}]%%}, [1]%%}, 0]: [
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^q (a + bx^n + cx^{2n})^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x)^m*(d+e*x^n)^q*(a+b*x^n+c*x^(2*n))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[3,0,8,5,0,3,5,5,2,0,0]%%}+%%{-5,[3,0,8,5,0,3,4,5,2,0
,0]%%}+%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^q (a + bx^n + cx^{2n}) dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x)^m*(d+e*x^n)^q*(a+b*x^n+c*x^(2*n)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[1,0,4,3,0,1,3,3,1,0,0]%%}+%%{-3,[1,0,4,3,0,1,2,3,1,0
,0]%%}+%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^n)^2 (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(d+e*x^n)^2*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-128,[1,0,5,3,0,6,4,1,6,0,2]%%}+%%{512,[1,0,5,3,0,6,4,0,7,1,1]%%}

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int x^{-1-n}(d + ex^n)^q (a + bx^n + cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-n)*(d+e*x^n)^q*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{256,[0,0,6,4,19,4,7,4,0,4,16]%%}+%%{-256,[0,0,6,4,19,4,6,4,2,4,15}

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int x^{-1-2n}(d+ex^n)^q(a+bx^n+cx^{2n})^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^(-1-2*n)*(d+e*x^n)^q*(a+b*x^n+c*x^(2*n))^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{256,[0,0,6,4,19,4,7,4,0,4,16]%%}+%%{-256,[0,0,6,4,19,4,6,4,2,4,15}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int (a+bx^n+cx^{2n})^p(A+Bx^n+Cx^{2n}) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^p*(A+B*x^n+C*x^(2*n)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-128,[1,0,5,3,6,4,1,6,0,0,1]%%}+%%{256,[1,0,5,3,6,4,0,7,0,1,0]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^p (A + Bx^n + Cx^{2n} + Dx^{3n}) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^p*(A+B*x^n+C*x^(2*n)+D*x^(3*n)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{512,[1,0,7,4,9,5,1,8,0,0,0,1]%%}+%%{-1024,[1,0,7,4,9,5,0,9,0,0,1,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int (a + bx^n + cx^{2n})^p (A + Cx^{2n}) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*x^n+c*x^(2*n))^p*(A+C*x^(2*n)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-128,[1,0,5,3,6,4,1,6,0,1]%%}+%%{-512,[1,0,5,3,6,3,1,6,0
,1]%%}+%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/132_1.2.3.5

Test file number 132

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{d + ex + f\sqrt{a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(d+e*x+f*(c*x^2+b*x+a)^(1/2)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_
nomial/135_1.2.4.1

Test file number 135

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{a + bx + cx^2})^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(c*x^2+b*x+a)^(1/2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{a + bx + cx^2})^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(c*x^2+b*x+a)^(1/2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{d + ex + f\sqrt{-a + bx + cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(c*x^2+b*x-a)^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{-a + bx + cx^2})^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(c*x^2+b*x-a)^(1/2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{-a + bx + cx^2})^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(c*x^2+b*x-a)^(1/2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{d + ex + f\sqrt{-a + bx - cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(-c*x^2+b*x-a)^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{-a + bx - cx^2})^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(-c*x^2+b*x-a)^(1/2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex + f\sqrt{-a + bx - cx^2})^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d+e*x+f*(-c*x^2+b*x-a)^(1/2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/135_1.2.4.1

Test file number 135

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(1+2x+\sqrt{2+3x+5x^2})^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(1+2*x+(5*x^2+3*x+2)^(1/2))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{923521, [8]%%}+%%{%%{ [3694084,0] : [1,0,-5]%%}, [7]%%}+%%{
42481966,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic
nomial/136_1.2.4.2

Test file number 136

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1+2x+\sqrt{2+3x+5x^2})^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(1+2*x+(5*x^2+3*x+2)^(1/2))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{923521, [8]%%}+%%{%%{ [3694084,0] : [1,0,-5]%%}, [7]%%}+%%{
42481966,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic
nomial/136_1.2.4.2

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax^2 + bx^3 + cx^4}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^3+a*x^2)^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2

Test file number 138

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^4,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{(ax^2 + bx^3 + cx^4)^{3/2}}{x^7} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c*x^4+b*x^3+a*x^2)^(3/2)/x^7,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.5_Improper_quadratic_trinomial/138_1.2.5.2`

Test file number 138

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{ax + bx^3 + cx^5}}{x^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^5+b*x^3+a*x)^(1/2)/x^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.6_Improper_general_trinomial/140_1.2.6.2

Test file number 140

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 - 4x + 3x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-4*x+2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/(9*(1/9565938*rootof([[[-3,0,14580,0,-11337408],[1,0,-5832,0,8503056,0,975725676]]])^2-4)*ln(sageVARx-1/9565938*rootof([[[-3,0,14580,0,-11337408],[1,0,-5832,0,8503056,0,97`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 - 4x + 3x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-4*x+2)^2,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: (36*sageVARx^2+27*sageVARx-32)*1/34/(3*sageVARx^3-4*sageVARx+2)+((1/531441*rootof([[-3,0,14580,0,-11337408]],[1,0,-5832,0,8503056,0,975725676]])+27)/(9*(1/9565938*rootof([[

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 - 6x + 3x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-6*x+2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: 1/(9*(1/1458*rootof([[-243,0,2430,0,-3888]],[1,0,-12,0,36,0,-20]]))^2-6)*ln(sageVARx-1/1458*rootof([[-243,0,2430,0,-3888]],[1,0,-12,0,36,0,-20]]))+1/(9*(1/972*rootof([[81,0,

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 - 6x + 3x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-6*x+2)^2,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: -(6*sageVARx^2+3*sageVARx-8)*1/30/(3*sageVARx^3-6*sageVARx+2)+((1/1458*rootof([[-243,0,2430,0,-3888],[1,0,-12,0,36,0,-20]]))+1)/(-9*(1/1458*rootof([[-243,0,2430,0,-3888],[1

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 - 4x^2 + 3x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-4*x^2+2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: 1/(9*(1/570767634*rootof([[-3,0,58320,0,72275976],[1,0,-23328,0,136048896,0,1603920824460]]))^2-4/285383817*rootof([[-3,0,58320,0,72275976],[1,0,-23328,0,136048896,0,16039

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 - 4x^2 + 3x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-4*x^2+2)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (48*sageVARx^2+17*sageVARx-36)*1/230/(3*sageVARx^3-4*sageVARx^2+2)+((4/9512793*9*rootof([[[-3,0,58320,0,72275976],[1,0,-23328,0,136048896,0,1603920824460]])+49)/(9*(1/570767`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 - 6x^2 + 3x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-6*x^2+2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/(9*(1/162*rootof([[[-3,0,180,0,-1620],[1,0,-72,0,1296,0,-6804]]]))^2-2/27*rootof([[[-3,0,180,0,-1620],[1,0,-72,0,1296,0,-6804]]]))*ln(sageVARx-1/162*rootof([[[-3,0,180,0,-162`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 - 6x^2 + 3x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(3*x^3-6*x^2+2)^2,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: $-(4*\text{sageVARx}^2-5*\text{sageVARx}-2)*1/14/(3*\text{sageVARx}^3-6*\text{sageVARx}^2+2)+((1/81*\text{rootof}([[-3,0,180,0,-1620],[1,0,-72,0,1296,0,-6804]])-1)/(-9*(1/162*\text{rootof}([[-3,0,180,0,-1620],[1,0,$

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972,[1]%%}+%%{162,[0]%%},[2]%%}+%%{%%{-324,[1]%%}+%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{17006112, [3]%%}+%%{-8503056, [2]%%}+%%{1417176, [1]%%}+%%{-`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-16529940864, [4]%%}+%%{11019960576, [3]%%}+%%{-2754990144, [2`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[177943631119025065490014216278560691052219415396352,0]:[1,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[57679697131412471146375752310031337811217990698824936928593`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 + 3x - 5x^2 + x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(x^3-5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/(3*(-1/61*rootof([[[-3,0,80,0,-443],[1,0,-32,0,256,0,-469]]]))^2+10/61*rootof([[[-3,0,80,0,-443],[1,0,-32,0,256,0,-469]]]+3)*ln(sageVARx+1/61*rootof([[[-3,0,80,0,-443],[1,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 + 3x - 5x^2 + x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(x^3-5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -(32*sageVARx^2-127*sageVARx+9)*1/469/(sageVARx^3-5*sageVARx^2+3*sageVARx+2)+((-32/61*rootof([[[-3,0,80,0,-443],[1,0,-32,0,256,0,-469]]])-94)/(-3*(-1/61*rootof([[[-3,0,80,0,-`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{2 + 3x + 4x^2 + x^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(x^3+4*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/(3*(1/74*rootof([[-3,0,35,0,-164],[1,0,-14,0,49,0,152]]))^2+4/37*rootof([[-3,0,35,0,-164],[1,0,-14,0,49,0,152]])+3)*ln(sageVARx-1/74*rootof([[-3,0,35,0,-164],[1,0,-14,0,`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2 + 3x + 4x^2 + x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(x^3+4*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (7*sageVARx^2+31*sageVARx+18)*1/76/(sageVARx^3+4*sageVARx^2+3*sageVARx+2)+((7/74*rootof([[-3,0,35,0,-164],[1,0,-14,0,49,0,152]])+34)/(3*(1/74*rootof([[-3,0,35,0,-164],[1,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2\sqrt{3b^{3/2} - 9bx + 9x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(2*3^(1/2)*b^(3/2)-9*b*x+9*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 - 4x + 3x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-4*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 - 4x + 3x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-4*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 - 6x + 3x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-6*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 - 6x + 3x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-6*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 - 4x^2 + 3x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-4*x^2+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 - 4x^2 + 3x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-4*x^2+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 - 6x^2 + 3x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-6*x^2+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 - 6x^2 + 3x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(3*x^3-6*x^2+2)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972, [1]%%}+%%{162, [0]%%}, [2]%%}+%%{%%{-324, [1]%%}+%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972, [1]%%}+%%{162, [0]%%}, [2]%%}+%%{%%{[-324, [1]%%}+%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972, [1]%%}+%%{162, [0]%%}, [2]%%}+%%{%%{[-324, [1]%%}+%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972, [1]%%}+%%{162, [0]%%}, [2]%%}+%%{%%{-324, [1]%%}+%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972, [1]%%}+%%{162, [0]%%}, [2]%%}+%%{%%{-324, [1]%%}+%`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^2 (1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-972,[1]%%}+%%{162,[0]%%},[2]%%}+%%{%%{[-324,[1]%%}+%
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{17006112,[3]%%}+%%{-8503056,[2]%%}+%%{1417176,[1]
%%}+%%{-
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorit
hm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{17006112,[3]%%}+%%{-8503056,[2]%%}+%%{1417176,[1]
%%}+%%{-
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{17006112, [3]%%}+%%{-8503056, [2]%%}+%%{1417176, [1]%%}+%%{-

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{17006112, [3]%%}+%%{-8503056, [2]%%}+%%{1417176, [1]%%}+%%{-

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^2 (1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{17006112,[3]%%}+%%{-8503056,[2]%%}+%%{1417176,[1]%%
%%}+%%{-`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}}{e + fx} dx = \text{Exception raised: TypeError}$$

input `integrate((1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2)/(f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}}{(e + fx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2)/(f*x+e)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{\sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{\sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)\sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^2 \sqrt{1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(1/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{[17794363111902506549001421627856069105221941539635
2,0]:[1,0
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{[17794363111902506549001421627856069105221941539635
2,0]:[1,0
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{[177943631119025065490014216278560691052219415396352,0]:[1,0`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)(1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e + fx)^2 (1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(f*x+e)^2/(1-(1-6*b)^(3/2)-9*b+54*b*x-54*x^2+108*x^3)^(3/2),x,
algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 + 3x - 5x^2 + x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(x^3-5*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 + 3x - 5x^2 + x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(x^3-5*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{2 + 3x + 4x^2 + x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(x^3+4*x^2+3*x+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2}{(2 + 3x + 4x^2 + x^3)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((C*x^2+B*x+A)/(x^3+4*x^2+3*x+2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{a + bx + cx^2 + bx^3 + ax^4} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(a*x^4+b*x^3+c*x^2+b*x+a),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument
Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.4_Quartic/145_1.4.2

Test file number 145

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{88 - 402x + 855x^2 - 837x^3 + 324x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(324*x^4-837*x^3+855*x^2-402*x+88),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.4_Quartic/145_1.4.2

Test file number 145

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{A + Bx + Cx^2 + Dx^3}{(88 - 402x + 855x^2 - 837x^3 + 324x^4)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((D*x^3+C*x^2+B*x+A)/(324*x^4-837*x^3+855*x^2-402*x+88)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.4_Quartic/145_1.4.2

Test file number 145

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1
]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(1+3^(1/2)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2
]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(1+3^(1/2)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+3^(1/2)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Va`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+3^(1/2)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Va`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int x^2(a + bx)^n (c + dx^3)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)^n*(d*x^3+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + ex + dx^2} \sqrt{a^2 + 2abx^2 + b^2x^4}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x^2+e*x+c)^(1/2)*((b*x^2+a)^2)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomials
Error:

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} - 2x}{(2^{2/3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2^(2/3)-2*x)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Ba
d Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} + 2x}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2^(2/3)+2*x)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} + 2x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2^(2/3)+2*x)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{2^{2/3} - 2x}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2^(2/3)-2*x)/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{(2^{2/3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2+3*x)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2+3*x)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + 3x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((2+3*x)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} - x)\sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%} Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(2^{2/3} + x)\sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(2^(2/3)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} + x)\sqrt{1+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(2^(2/3)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%}% / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%}% Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} - x)\sqrt{1-x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(2^(2/3)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%}% / %%{%%{[2,0]:[1,0,0,-2]%%},[2]%%}% Error: Bad Argument

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(2^{2/3} - x)\sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(2^(2/3)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[1]%%} / %%{%%{[1,0,0]:[1,0,0,-2]%%},[1]%%} Error: Bad Argumen

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + x}{(1 - \sqrt{3} + x)\sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)+x)/(1-3^(1/2)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[-1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[-2,4]:[1,0,-3]%%},[2]%%}

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - x}{(1 - \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)-x)/(1-3^(1/2)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,1]:[1,0,-3]%%},[2]%%} / %%{%%{[-2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - x}{(1 - \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)-x)/(1-3^(1/2)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,1]:[1,0,-3]%%},[2]%%} / %%{%%{[-2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + x}{(1 - \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)+x)/(1-3^(1/2)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%[-1,-1]:[1,0,-3]%%}, [2]%%} / %%{%%[-2,4]:[1,0,-3]%%}
, [2]%%}`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)+(b/a)^(1/3)*x)/(1-3^(1/2)+(b/a)^(1/3)*x)/(b*x^3+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)-(b/a)^(1/3)*x)/(1-3^(1/2)-(b/a)^(1/3)*x)/(-b*x^3+a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+3^(1/2)-(b/a)^(1/3)*x)/(1-3^(1/2)-(b/a)^(1/3)*x)/(b*x^3-a)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1+3^(1/2)+(b/a)^(1/3)*x)/(1-3^(1/2)+(b/a)^(1/3)*x)/(-b*x^3-a)^(
1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + x}{(1 + \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)+x)/(1+3^(1/2)+x)/(x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - x}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)-x)/(1+3^(1/2)-x)/(-x^3+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - x}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)-x)/(1+3^(1/2)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + x}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)+x)/(1+3^(1/2)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1,-1]:[1,0,-3]%%},[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[
2]%%} Er

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a + bx^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1-3^(1/2)+(b/a)^(1/3)*x)/(1+3^(1/2)+(b/a)^(1/3)*x)/(b*x^3+a)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{a - bx^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((1-3^(1/2)-(b/a)^(1/3)*x)/(1+3^(1/2)-(b/a)^(1/3)*x)/(-b*x^3+a)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} - \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} - \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a + bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)-(b/a)^(1/3)*x)/(1+3^(1/2)-(b/a)^(1/3)*x)/(b*x^3-a)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{1 - \sqrt{3} + \sqrt[3]{\frac{b}{a}}x}{\left(1 + \sqrt{3} + \sqrt[3]{\frac{b}{a}}x\right) \sqrt{-a - bx^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((1-3^(1/2)+(b/a)^(1/3)*x)/(1+3^(1/2)+(b/a)^(1/3)*x)/(-b*x^3-a)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} + x) \sqrt{1 + x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)/(1+3^(1/2)+x)/(x^3+1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [2]%%} / %%{%%{[2,4]: [1,0,-3]%%}, [2]%%} Error: Bad Ar
gument Va
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} - x) \sqrt{1 - x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)/(1+3^(1/2)-x)/(-x^3+1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Ar
gument Va
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x+e)/(1+3^(1/2)-x)/(x^3-1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Ar
gument Va
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{e + fx}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)/(1+3^(1/2)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Va

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + \sqrt{3} - x) \sqrt{-1 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(1+3^(1/2)-x)/(x^3-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Va

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + \sqrt{3} + x) \sqrt{-1 - x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(1+3^(1/2)+x)/(-x^3-1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[2]%%} / %%{%%{[2,4]:[1,0,-3]%%},[2]%%} Error: Bad Argument Va`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/148_1.7.3

Test file number 148

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int (cx)^m (dx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int (cx)^m \sqrt{dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*(d*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx)^m}{\sqrt{dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(d*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{a+bx}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^2\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^2/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^3 \sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^3/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^4 \sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^4/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int \frac{a+bx}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^2 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^2/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^3 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^3/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^4 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^4/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \frac{a+bx}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 281

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^2 (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^3 (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^3/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{a + bx}{x^4 (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)/x^4/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^2\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^3 \sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^3/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^4 \sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^4/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^2}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)^2/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^2}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)^2/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^2}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)^2/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^2 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^2/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^3 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^3/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^4 (cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^4/(c*x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^2}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^2}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^2}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{x(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^2}{x^2(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^2/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^3 (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^3/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 332

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^2}{x^4 (cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*x+a)^2/x^4/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^2(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^2/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^3(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^3/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^4(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^4/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^4(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^4/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^5(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^5/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 348

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^6(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^6/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^7(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^7/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2}}{x^6(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(5/2)/x^6/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{5/2}}{x^7(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(5/2)/x^7/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2\sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{cx^2(a+bx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(c*x^2)^(1/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cx^2)^{3/2}(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (cx^2)^{3/2} (a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2)^(3/2)/(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^2(a + bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^2/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^3(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^3/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{cx^2}}{x^4(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(1/2)/x^4/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^4(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^4/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^5(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^5/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{(cx^2)^{3/2}}{x^6(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*x^2)^(3/2)/x^6/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 390

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 \sqrt{cx^2(a+bx)^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^2/(c*x^2)^(1/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(cx^2)^{3/2}(a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{(cx^2)^{3/2} (a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(cx^2)^{3/2} (a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{(cx^2)^{3/2} (a + bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(cx^2)^{3/2} (a + bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(cx^2)^{3/2} (a+bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*x^2)^(3/2)/(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{5/2} (a+bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(5/2)*(b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{3/2} (a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(3/2)*(b*x+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{cx^2} (a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(1/2)*(b*x+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{(dx)^m (a + bx)}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(b*x+a)/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{5/2} (a + bx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(5/2)*(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int (dx)^m (cx^2)^{3/2} (a + bx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(3/2)*(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{cx^2} (a + bx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(c*x^2)^(1/2)*(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{(dx)^m (a + bx)^2}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(b*x+a)^2/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + bx)^p}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(b*x+a)^p/(c*x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,3,1,0,0]} / %%{1,[0,0,0,1,1]} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^p}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)^p/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 441

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^p}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(b*x+a)^p/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a+bx)^p}{\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(b*x+a)^p/(c*x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 443

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a+bx)^p}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(b*x+a)^p/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,3,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 447

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx)^p}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(b*x+a)^p/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a+bx)^p}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(b*x+a)^p/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 449

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^p}{(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(b*x+a)^p/(c*x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{x^8(a+bx)^p}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8*(b*x+a)^p/(c*x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,3,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a+bx)^p}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(b*x+a)^p/(c*x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a+bx)^p}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(b*x+a)^p/(c*x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a+bx)^p}{(cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(b*x+a)^p/(c*x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 458

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{dx^2(a+bx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(d*x^2)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 482

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{dx^2(a+bx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(d*x^2)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 483

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{dx^2(a+bx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(d*x^2)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 484

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{dx^2(a+bx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(d*x^2)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 485

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3\sqrt{dx^2(a+bx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(d*x^2)^(1/2)/(b*x^2+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 486

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{a}{x^{17}}}}{\sqrt{1+x^5}} dx = \text{Exception raised: TypeError}$$

input `integrate((a/x^17)^(1/2)/(x^5+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 509

Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument
Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + b\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*(c*x^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{a + b\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*(c*x^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{cx^2}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c*x^2)^(1/2))^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{cx^2}}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c*x^2)^(1/2))^(1/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int x^4 \sqrt{a + b\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*(c*x^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int x^2 \sqrt{a + b\sqrt{cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*(c*x^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int x^8 \sqrt{a + b(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^8*(a+b*(c*x^2)^(3/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{a + b(cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*(c*x^2)^(3/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int (dx)^m \sqrt{a + \frac{b}{\sqrt{cx^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x)^m*(a+b/(c*x^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{\frac{c}{x}}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c/x)^(1/2))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*(c/x)^(1/2))^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*(c/x)^(1/2))^(1/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\sqrt{\frac{c}{x}}x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*(c/x)^(1/2))^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b\sqrt{\frac{c}{x}}}(dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(c/x)^(1/2))^(1/2)*(d*x)^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]}%%} / %%{1,[0,0,0,1]}%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b\sqrt{\frac{d}{x}} + \frac{c}{x}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*(d/x)^(1/2)+c/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/150_1.6.2

Test file number 150

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx^2 + e\sqrt{a + bx^2}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^2+e*(b*x^2+a)^(1/2))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx^2 + e\sqrt{a + bx^2}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^2+e*(b*x^2+a)^(1/2))^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + dx^2 + e\sqrt{a + bx^2}}}{x^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*x^2+e*(b*x^2+a)^(1/2))^(1/2)/x^5,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2 + e\sqrt{a + bx^2})^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*x^2+e*(b*x^2+a)^(1/2))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2 + e\sqrt{a + bx^2})^{3/2}}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((c+d*x^2+e*(b*x^2+a)^(1/2))^(3/2)/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 \sqrt{c + dx^2 + e\sqrt{a + bx^2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x^3/(c+d*x^2+e*(b*x^2+a)^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + dx^2 + e\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(1/x/(c+d*x^2+e*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + dx^2 + e\sqrt{a + bx^2})^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x^3/(c+d*x^2+e*(b*x^2+a)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{ac + bcx^2 + d\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(a*c+b*c*x^2+d*(b*x^2+a)^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2}{ac + bcx^2 + d\sqrt{a + bx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a*c+b*c*x^2+d*(b*x^2+a)^(1/2)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{c}{x^2}}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+c/x^2)^(1/2)/(e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + \frac{c}{x^2} + \frac{b}{x}}}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+c/x^2+b/x)^(1/2)/(e*x+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + dx)((-1 + x)(-1 + kx))^p}{(a + bx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(d*x+c)*((x-1)*(k*x-1))^p/(b*x+a)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,1,1,1,0,0]%%}+%%{1,[0,1,1,0,0,1,1]%%} / %%{1,[
0,0,0,0,0

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{(1-x)(4-x)}{\left(5-\frac{4}{x}\right)^{3/2}(-2+x)x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((1-x)*(4-x)/(5-4/x)^(3/2)/(-2+x)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{480,[2,1]%%}+%%{%%{[768,0]:[1,0,-5]%%},[1,1]%%}+%%{153
6,[0,1]%%

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\frac{x}{(1+x)^2}}}{x} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x/(1+x)^2)^(1/2)/x,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: -2*a
tan(i)*sign(sageVARx+1)+2*sign(sageVARx+1)*atan(sqrt(sageVARx))

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\frac{x}{(1+x)^2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x/(1+x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (2*a
tan(i)-2*i)*sign(sageVARx+1)+2*(sqrt(sageVARx)-atan(sqrt(sageVARx)))*sign(
sageVARx+1)`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/154_1.6.7

Test file number 154

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int f^{a+bx^3} x^{17} dx = \text{Exception raised: TypeError}$$

input `integrate(f^(b*x^3+a)*x^17,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error
: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int F^{a+b(c+dx)^3}(c+dx)^{17} dx = \text{Exception raised: TypeError}$$

input `integrate(F^(a+b*(d*x+c)^3)*(d*x+c)^17,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int F^{a+b(c+dx)^3}(c+dx)^{14} dx = \text{Exception raised: TypeError}$$

input `integrate(F^(a+b*(d*x+c)^3)*(d*x+c)^14,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} x^2 \log^n(dx) (e + en + e(3 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

input `integrate(F^((b*x+a)*c)*x^2*log(d*x)^n*(e+e*n+e*(3+b*c*x*log(F))*log(d*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1,[0,3,0,0

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} x \log^n(dx) (e + en + e(2 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

input `integrate(F^((b*x+a)*c)*x*log(d*x)^n*(e+e*n+e*(2+b*c*x*log(F))*log(d*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%{1,[0,3,0,0

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int F^{c(a+bx)} \log^n(dx) (e + en + e(1 + bcx \log(F)) \log(dx)) dx$$

= Exception raised: RuntimeError

input `integrate(F^((b*x+a)*c)*log(d*x)^n*(e+e*n+e*(1+b*c*x*log(F))*log(d*x)),x,
algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%
%{1,[0,3,0,0`

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{F^{c(a+bx)} \log^n(dx) (e + en + bcx \log(F) \log(dx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(F^((b*x+a)*c)*log(d*x)^n*(e+e*n+b*c*e*x*log(F)*log(d*x))/x,x, al
gorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%
%{1,[0,3,0,0
```

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{F^{c(a+bx)} \log^n(dx) (e + en + e(-1 + bcx \log(F)) \log(dx))}{x^2} dx$$

= Exception raised: RuntimeError

input

```
integrate(F^((b*x+a)*c)*log(d*x)^n*(e+e*n+e*(-1+b*c*x*log(F))*log(d*x))/x^
2,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,2,0,0,0,2,1]%%}+%%{2,[0,2,0,0,0,1,1]%%}+%%{1,[0,2,0,0,0,0,1]%%} / %%
%{1,[0,3,0,0
```

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int e^{i \arctan(ax)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int e^{i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int e^{3i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int e^{-i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(1+I*a*x)*(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int e^{-i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(1+I*a*x)*(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int e^{-3i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(1+I*a*x)^3*(a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(ax)}}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^5,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i\arctan(ax)}x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i\arctan(ax)}x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(x/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{2}i \arctan(ax)}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}i \arctan(ax)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int e^{3i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1+I*a*x)^3/(a^2*x^2+1)^(3/2)*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int e^{-3i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(1+I*a*x)^3*(a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}i\arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(5/2)*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i\arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2)*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i\arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2)*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i\arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/((1+I*a*x)/(a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{4}i \arctan(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*a*x)/(a^2*x^2+1)^(1/2))^(1/4)*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

input

```
integrate(x/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(a+bx)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(1/2)/x^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} x^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} x dx = \text{Exception raised: TypeError}$$

input

```
integrate(x/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}i \arctan(a+bx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(ax+b)}}{x} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x,x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{3}{2}i \arctan(a+bx)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((1+I*(b*x+a))/(1+(b*x+a)^2)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(a+bx)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(b*x+a))*x^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,2,0]%%} / %%{1,[0,0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int e^{\arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int e^{\arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctan(ax)}(c + a^2cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(2*arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 281

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctan(ax)}\sqrt{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(2*arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int e^{-\arctan(ax)}(c + a^2cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/exp(arctan(a*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int e^{-\arctan(ax)}\sqrt{c + a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/exp(arctan(a*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)/exp(2*arctan(a*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)/exp(2*arctan(a*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+I*a*x)/(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+I*a*x)*(a^2*x^2+1)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3i \arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+I*a*x)^3*(a^2*x^2+1)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} (c + a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} \sqrt{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \arctan(ax)} x^3}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*x^3/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int e^{n \arctan(ax)} \sqrt[3]{c + a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*(a^2*c*x^2+c)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \arctan(ax)} x^m}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*x^m/(a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \arctan(ax)} x^m}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctan(a*x))*x^m/(a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,1,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-5i \arctan(ax)} x^2}{(c + a^2 cx^2)^{27/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(1+I*a*x)^5*(a^2*x^2+1)^(5/2)/(a^2*c*x^2+c)^(27/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/2_Exponentials/2.4/159_2.4.3

Test file number 159

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c*x)^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c-ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\sqrt{c-ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{(c-ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c-acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c - acx)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c + acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(a*c*x+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c+acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*c*x+c)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c-acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int e^{-5\operatorname{arctanh}(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p/(a*x+1)^5*(-a^2*x^2+1)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x}{(c - acx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARa)/sageVARc^2/sageVARa/sageVARc*(-(-6*sageVARc*atan(i)-(-7*i)*sageVARc)/3*sign((sageVARa*sageVARc*sageVARx-sageVARc)^-1)*sign(sageVARa)*sign(sageVARc)-2*sageV`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 375

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 421

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\arctanh(ax)} \sqrt{c - acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 427

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^4,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^5,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 462

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 463

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 465

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 466

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 467

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 468

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 469

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 470

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c+acx}dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(e*x)^m*(a*c*x+c)^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 471

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c+acx}dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 474

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c-acx}dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(e*x)^m*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 479

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c-acx}dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 482

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a/x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 492

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a/x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 509

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 524

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 541

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 543

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 545

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 550

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisatio
n over extensionLimit: Max order reached or unable to make series expansio
n Error:

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 560

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 567

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 568

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 569

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 574

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 576

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 577

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 578

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 579

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 580

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 581

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 582

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 583

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 584

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 585

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 586

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 587

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 588

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 589

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 590

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 593

Giac [F(-2)]

Exception generated.

$$\int e^{3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 600

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 603

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a/x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 609

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a/x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 610

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 628

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)*x^2,x, algorithm="g
iac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 634

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)*x,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 635

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 636

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 637

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 638

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 639

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 640

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 641

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 642

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 649

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 650

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 651

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 652

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 653

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="g
iac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 658

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 659

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)*x/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 660

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 661

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 662

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 663

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 664

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 665

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 666

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 690

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 723

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 731

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 732

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 733

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 734

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 738

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\arctanh(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 739

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 740

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 741

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 742

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 747

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 748

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 749

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 750

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 755

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 756

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 757

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 758

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 762

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 763

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 764

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 765

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 766

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 771

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 772

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 773

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 774

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 779

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 780

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \left(c - \frac{c}{a^2 x^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 781

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 784

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 785

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} x^m dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a^2/x^2)^(1/2)*x^m,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 795

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 805

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 830

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 925

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 934

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 936

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^7}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^7/(-a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 944

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 946

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 948

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1014

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1016

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1114

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^3}{\sqrt{c-a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1145

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^2}{\sqrt{c-a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1146

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} x}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1147

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1148

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1153

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^2}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1154

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{x(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/x/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1157

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2cx^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1168

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1169

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1170

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}x^2}{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2/(-a^2*c*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1187

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}x^m\sqrt{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1210

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1211

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1259

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}(c - a^2cx^2)^p}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1264

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)}x^3\sqrt{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1273

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1289

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1316

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{5/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(5/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1334

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{9/8}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(9/8),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1340

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^4}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^4/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,2,2,0]%%}+%%{1,[0,1,0,0,0]%%} / %%{1,[0,0,4,0,1
]%%} Err

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1349

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,2,1]%%} Error: Bad Argum
ent Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1350

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^2}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^2/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,2,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1351

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^4}{(c - a^2 c x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^4/(-a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,4,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1356

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1365

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1367

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1368

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1369

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1370

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1371

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1372

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1379

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 c x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 1386

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{coth}^{-1}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int e^{3\coth^{-1}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c*x)^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\sqrt{c- acx}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{(c- acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{(c - acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{(c - acx)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(-a*c*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} (c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^3*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*x*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a*c*x+c)^(1/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)} x}{(1+x)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/((x-1)/(1+x))^(1/2)*x/(1+x)^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (2*a tan(i)-4*i)/sqrt(2)*sign(sageVARx+1)+2*(sqrt(sageVARx-1)/sign(sageVARx+1)- atan(sqrt(sageVARx-1)/sqrt(2))/sqrt(2)/sign(sageVARx+1))`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(x)}}{(1+x)^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/((x-1)/(1+x))^(1/2)/(1+x)^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -sqrt(2)*atan(i)*sign(sageVARx+1)+sqrt(2)*atan(sqrt(sageVARx-1)/sqrt(2))/sign(sageVARx+1)`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int e^{-3\coth^{-1}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 375

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 376

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^2,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 377

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^3,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - acx}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)}(ex)^m(c - acx)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(e*x)^m*(-a*c*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)}(ex)^m(c - acx) dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(e*x)^m*(-a*c*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)}(ex)^m(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(e*x)^m*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(9/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 461

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 462

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionLimit: Max order reached or unable to make series expansio
n Error:`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 463

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 471

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 473

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 474

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 475

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 476

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 478

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 479

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 480

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 484

Giac [F(-2)]

Exception generated.

$$\int e^{-2\coth^{-1}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 486

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 487

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 488

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 489

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 490

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 491

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 492

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 493

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a/x)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 494

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 495

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 496

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 497

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 498

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 501

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 521

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 522

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 523

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 524

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 525

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 526

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 527

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 528

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 529

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 536

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2*(a*x-1)/(a*x+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 537

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x*(a*x-1)/(a*x+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 538

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 539

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*(a*x-1)/(a*x+1)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 540

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 545

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 546

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 547

Giac [F(-2)]

Exception generated.

$$\int e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 548

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 549

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 550

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*((a*x-1)/(a*x+1))^(3/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))/(c-c/a/x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 557

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))/(c-c/a/x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 558

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - a^2 cx^2)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a^2*c*x^2+c)^(9/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,9,4,0]%%}+%%{1,[0,8,8,4,0]%%}+%%{-4,[0,7,7,4,0]%%}+%%{

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 596

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - a^2 cx^2)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0,7,7,3,0]%%}+%%{-1, [0,6,6,3,0]%%}+%%{3, [0,5,5,3,0]%%}+%%

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 597

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - a^2 cx^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,5,5,2,0]%%}+%%{1, [0,4,4,2,0]%%}+%%{-2, [0,3,3,2,0]%%}+%%{

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 598

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,3,3,1,0]%%}+%%{-1,[0,2,2,1,0]%%}+%%{1,[0,1,1,1,0]%%}+%%`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 599

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 601

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{coth}^{-1}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 602

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{coth}^{-1}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 603

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 604

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\coth^{-1}(ax)}}{\sqrt{c - a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 610

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - a^2 cx^2)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a^2*c*x^2+c)^(9/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,9,4,0]%%}+%%{3,[0,8,8,4,0]%%}+%%{-8,[0,6,6,4,0]%%}+%%{

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 615

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - a^2 cx^2)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,7,7,3,0]%%}+%%{-3,[0,6,6,3,0]%%}+%%{-1,[0,5,5,3,0]%%}+%%

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 616

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - a^2 cx^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,5,5,2,0]%%}+%%{3,[0,4,4,2,0]%%}+%%{2,[0,3,3,2,0]%%}+%%{-`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 617

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,3,3,1,0]%%}+%%{-3,[0,2,2,1,0]%%}+%%{-3,[0,1,1,1,0]%%}+%%`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 618

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 620

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 621

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 622

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{(c - a^2 cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 623

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 636

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 646

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^2 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 650

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0]}%%}+%%{1,[0,1,0,0]}%%} / %%{1,[0,0,0,1]}%%} Error: Ba`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 651

Giac [F(-2)]

Exception generated.

$$\int e^{2\coth^{-1}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 655

Giac [F(-2)]

Exception generated.

$$\int e^{3\coth^{-1}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm=
"giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 664

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^4}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^4/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 673

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^3}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 674

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^2}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 675

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)*x/(-a^2*c*x^2+c)^(3/2),x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 676

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 677

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{x(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/x/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 678

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{x^2 (c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/x^2/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 679

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{x^3 (c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 680

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^5}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^5/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 681

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^4}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^4/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 682

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^3}{(c - a^2 c x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 683

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} x^2}{(c - a^2 c x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^2/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 684

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}x}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)*x/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 685

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 686

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{coth}^{-1}(ax)}}{x(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/x/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 687

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{coth}^{-1}(ax)}}{x^2(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/((a*x-1)/(a*x+1))^(1/2)/x^2/(-a^2*c*x^2+c)^(5/2),x, algorithm=
"giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 688

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*c*x^2+c)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 694

Giac [F(-2)]

Exception generated.

$$\int e^{3 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 712

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 713

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,1,0]%%}+%%{1,[0,1,0,0,0]%%} / %%{1,[0,0,0,0,1]%%} Err

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 714

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-a^2*c*x^2+c)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 716

Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 718

Giac [F(-2)]

Exception generated.

$$\int e^{n \coth^{-1}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 719

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)} x^3}{(c - a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 725

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 731

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 769

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 810

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 811

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 812

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 813

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 817

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 818

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 819

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 820

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 821

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 827

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 828

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 829

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 830

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 835

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 836

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 837

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 838

Giac [F(-2)]

Exception generated.

$$\int e^{-2\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 842

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 843

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 844

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 845

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x-1)/(a*x+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 846

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 852

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 853

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 854

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3 \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x-1)/(a*x+1))^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 855

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a^2/x^2)^(1/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,1,0]%%}+%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,2,1]%%} Err`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 856

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} x dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a^2/x^2)^(1/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,1,0]%%}+%%{1,[0,1,0,0,0]%%} / %%{1,[0,0,0,2,1]%%} Err`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 857

Giac [F(-2)]

Exception generated.

$$\int e^{2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x-1)*(a*x+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 865

Giac [F(-2)]

Exception generated.

$$\int e^{-2 \coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)*(a*x-1)/(a*x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 889

Giac [F(-2)]

Exception generated.

$$\int e^{\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} (ex)^m dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(c-c/a^2/x^2)^(1/2)*(e*x)^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 905

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\coth^{-1}(ax)} (ex)^m}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((a*x-1)/(a*x+1))^(1/2)*(e*x)^m/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 907

Giac [F(-2)]

Exception generated.

$$\int e^{-\coth^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} (ex)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)*(e*x)^m*((a*x-1)/(a*x+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 909

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\coth^{-1}(ax)} (ex)^m}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*((a*x-1)/(a*x+1))^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 911

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))/(c-c/a^2/x^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 913

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))/(c-c/a^2/x^2)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 914

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{coth}^{-1}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arccoth(a*x))*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 915

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^8 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^8,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,7,2,2,0,0]}+%%{1,[0,6,0,1,1,1]} / %%{1,[0,0,2
,3,0,0]}%

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^6 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^6,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,5,2,2,0,0]%%}+%%{1,[0,4,0,1,1,1]%%} / %%{1,[0,0,2,3,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,3,2,2,0,0]%%}+%%{1,[0,2,0,1,1,1]%%} / %%{1,[0,0,2,3,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,2,0,0]%%}+%%{1,[0,0,0,1,1,1]%%} / %%{1,[0,0,2,3,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^5 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,2,2,0,0]%%}+%%{1,[0,3,0,1,1,1]%%} / %%{1,[0,0,2,3,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))*x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,2,2,0,0]%%}+%%{1,[0,1,0,1,1,1]%%} / %%{1,[0,0,2,3,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{sech}^{-1}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))^2*x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,4,0,6,0,0]%%}+%%{1,[0,2,4,4,0,0]%%}+%%{1,[0,2,0,4,0,0]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{sech}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(1/a/x+(-1+1/a/x)^(1/2)*(1+1/a/x)^(1/2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-%%{2, [2,2]%%}/%%{-8, [3,3]%%}+%%{8, [2,2]%%}*%%{8, [3,3]%%}+%`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2)*(1+1/a/x^2)^(1/2))*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{sech}^{-1}(ax^2)}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2)*(1+1/a/x^2)^(1/2))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^6 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2)*(1+1/a/x^2)^(1/2))*x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,4,2,1,1,1]%%}+%%{1,[0,4,0,0,0,2]%%} / %%{1,[0,0,0,0,0,3]%%}`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2)*(1+1/a/x^2)^(1/2))*x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,2,1,1,1]%%}+%%{1,[0,2,0,0,0,2]%%} / %%{1,[0,0,0,0,0,3]%%}

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2)*(1+1/a/x^2)^(1/2))*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,1,1]%%}+%%{1,[0,0,0,0,2]%%} / %%{1,[0,0,0,0,3]%%} Err

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{sech}^{-1}(ax^2)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(-1+1/a/x^2)^(1/2))*(1+1/a/x^2)^(1/2))*x^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/165_2.5.5

Test file number 165

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{csch}^{-1}(ax)}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))^2*x^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(1/a/x+(1+1/a^2/x^2)^(1/2))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax^2)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x^2+(1+1/a^2/x^4)^(1/2))*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{csch}^{-1}(ax)} x^m dx = \text{Exception raised: TypeError}$$

input `integrate((1/a/x+(1+1/a^2/x^2)^(1/2))*x^m,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{csch}^{-1}(cx)}(dx)^m}{1+c^2x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((1/c/x+(1+1/c^2/x^2)^(1/2))*(d*x)^m/(c^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/166_2.5.6

Test file number 166

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^4 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)*x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3}{2}\operatorname{arctanh}(ax)}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{5}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2)*x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{1}{2}\operatorname{arctanh}(ax)} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2/((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{5}{2}\operatorname{arctanh}(ax)} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/((a*x+1)/(-a^2*x^2+1)^(1/2))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c*x)^m,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int e^{-\frac{3}{2}\operatorname{arctanh}(ax)}(cx)^m dx = \text{Exception raised: TypeError}$$

input `integrate((c*x)^m/((a*x+1)/(-a^2*x^2+1)^(1/2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c-ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\sqrt{c-ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{(c-ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c-acx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{(c - acx)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(-a*c*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c + acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(a*c*x+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c+acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*c*x+c)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(c-acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^p,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 292

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int e^{-5\operatorname{arctanh}(ax)}(c - acx)^p dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^p/(a*x+1)^5*(-a^2*x^2+1)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 348

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x}{(c - acx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x/(-a*c*x+c)^2,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/abs(sageVARa)/sageVARc^2/sageVARa/sageVARc*(-(-6*sageVARc*atan(i)-(-7*i)*sageVARc)/3*sign((sageVARa*sageVARc*sageVARx-sageVARc)^-1)*sign(sageVARa)*sign(sageVARc)-2*sageV`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^4}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^4/(-a*c*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 376

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^2}{(c - acx)^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2/(-a*c*x+c)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^2*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^3*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^4,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}\sqrt{c-ax}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(-a*c*x+c)^(1/2)/x^5,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^3 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 447

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^2 \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x \sqrt{c - acx} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 449

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c-acx}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}\sqrt{c- acx}}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c+acx}dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(e*x)^m*(a*c*x+c)^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c+acx}dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 459

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c-acx}dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(e*x)^m*(-a*c*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)}(ex)^m\sqrt{c-acx}dx = \text{Exception raised: TypeError}$$

input `integrate((e*x)^m*(-a*c*x+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 467

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a/x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 477

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a/x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 494

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 509

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^5} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 526

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 528

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 530

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 535

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 536

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionLimit: Max order reached or unable to make series expansion Error:`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 537

Giac [F(-2)]

Exception generated.

$$\int e^{2\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 538

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 545

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 547

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 548

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 554

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 555

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 559

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 561

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 564

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 565

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{ax}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 566

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 567

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 568

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 569

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a/x)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{9/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(9/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 571

Giac [F(-2)]

Exception generated.

$$\int e^{-3a \operatorname{arctanh}(ax)} \left(c - \frac{c}{ax} \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(7/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 572

Giac [F(-2)]

Exception generated.

$$\int e^{-3a\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(5/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 573

Giac [F(-2)]

Exception generated.

$$\int e^{-3a\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(3/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 574

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 575

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a/x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 578

Giac [F(-2)]

Exception generated.

$$\int e^{3a\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 585

Giac [F(-2)]

Exception generated.

$$\int e^{-3a\operatorname{arctanh}(ax)} \left(c - \frac{c}{ax}\right)^p dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^p/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 588

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a/x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 594

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{ax}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a/x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 595

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 613

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)*x^2,x, algorithm="g
iac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 619

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)*x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 620

Giac [F(-2)]

Exception generated.

$$\int e^{3\arctanh(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 621

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 622

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 623

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 624

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 625

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*(c-c/a/x)^(1/2)/x^5,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 626

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 634

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 635

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 636

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 637

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^2*(-a^2*x^2+1)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 638

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} x^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)*x^3/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="g
iac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 643

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)*x^2/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 644

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax} x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)*x/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 645

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 646

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 647

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 648

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 649

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^4,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 650

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{ax}}}{x^5} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c/a/x)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/x^5,x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 651

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 675

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{c - \frac{c}{a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 708

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 716

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 717

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 718

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 719

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 723

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2 x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 724

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 725

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 726

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 727

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 732

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 733

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 734

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 735

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 740

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 741

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 742

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a^2*x^2+1)^(1/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 743

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 747

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 748

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 749

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 750

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^2*(-a^2*x^2+1)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 751

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\sqrt{c - \frac{c}{a^2x^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 756

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 757

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 758

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-3\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)^3*(-a^2*x^2+1)^(3/2)/(c-c/a^2/x^2)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 759

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 764

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 765

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \left(c - \frac{c}{a^2 x^2} \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 766

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 767

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 769

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))/(c-c/a^2/x^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 770

Giac [F(-2)]

Exception generated.

$$\int e^{\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} x^m dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*(c-c/a^2/x^2)^(1/2)*x^m,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 780

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*(c-c/a^2/x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 790

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} \sqrt{c - \frac{c}{a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c/a^2/x^2)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 815

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 910

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 919

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 921

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^7}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^7/(-a^2*c*x^2+c)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 929

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 931

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 933

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^5}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^5/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 999

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)/(-a^2*x^2+1)^(1/2)*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1001

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1099

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^3}{\sqrt{c-a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E rror: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1130

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^2}{\sqrt{c-a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1131

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)} x}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1132

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{\sqrt{c - a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1133

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1138

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}x^2}{(c - a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^2/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1139

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2\operatorname{arctanh}(ax)}}{x(c-a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)/x/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1142

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2cx^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1153

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1154

Giac [F(-2)]

Exception generated.

$$\int e^{2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^2/(-a^2*x^2+1)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1155

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{3\operatorname{arctanh}(ax)}x^2}{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^2/(-a^2*c*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1172

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)}x^m\sqrt{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1195

Giac [F(-2)]

Exception generated.

$$\int e^{3\operatorname{arctanh}(ax)} x^m (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

input `integrate((a*x+1)^3/(-a^2*x^2+1)^(3/2)*x^m*(-a^2*c*x^2+c)^p,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1196

Giac [F(-2)]

Exception generated.

$$\int e^{-\operatorname{arctanh}(ax)} x^3 (c - a^2 cx^2)^p dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1244

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}(c - a^2cx^2)^p}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^p/(a*x+1)*(-a^2*x^2+1)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1249

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)}x^3\sqrt{c - a^2cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1258

Giac [F(-2)]

Exception generated.

$$\int e^{-2\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^2*(-a^2*x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1274

Giac [F(-2)]

Exception generated.

$$\int e^{-3\operatorname{arctanh}(ax)} x^m \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-a^2*c*x^2+c)^(1/2)/(a*x+1)^3*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & 1) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1301

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{5/4}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(5/4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1319

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{2}\operatorname{arctanh}(ax)}x^3}{(c - a^2cx^2)^{9/8}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((a*x+1)/(-a^2*x^2+1)^(1/2))^(1/2)*x^3/(-a^2*c*x^2+c)^(9/8),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1325

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^4}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^4/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,2,2,0]%%}+%%{1,[0,1,0,0,0]%%} / %%{1,[0,0,4,0,1
]%%} Err

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1334

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,0,0]%%} / %%{1,[0,0,0,2,1]%%} Error: Bad Argum
ent Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1335

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^2}{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^2/(-a^2*c*x^2+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,2,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1336

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^4}{(c - a^2 c x^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^4/(-a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,4,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1341

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x^3 \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1350

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} x \sqrt{c - a^2 c x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1352

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1353

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1354

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} \sqrt{c - a^2 cx^2}}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(1/2)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1355

Giac [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - a^2 cx^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1356

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{\sqrt{c - a^2 c x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1357

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 c x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1364

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)} x^3}{(c - a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(n*arctanh(a*x))*x^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 1371

Giac [F(-2)]

Exception generated.

$$\int \frac{\log^{-1+q}(cx^n) (ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(log(c*x^n)^(-1+q)*(a*x^m+b*log(c*x^n)^q)^p/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,2,5,2,0,5,0,2,1,2,2]%%}+%%{-2,[0,0,2,4,2,1,5,0,1,1,2,2]%%}+%%{5,[0,0,2,4,2,0,4,

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{(amx^m + bnq \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx$$

= Exception raised: RuntimeError

input `integrate((a*m*x^m+b*n*q*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x,
algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,0,2,5,2,0,5,0,3,1,2,3]%%}+%%{-2,[0,0,2,4,2,1,5,0,2,1,2,3]%%}+%%{5,[0,
0,2,4,2,0,4,

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{(dx^m + e \log^{-1+q}(cx^n)) (ax^m + b \log^q(cx^n))^p}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x^m+e*log(c*x^n)^(-1+q))*(a*x^m+b*log(c*x^n)^q)^p/x,x, algori
thm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,0,2,5,2,0,5,0,2,1,2,2,1]%%}+%%{-2,[0,0,2,4,2,1,5,0,1,1,2,2,1]%%}+%%{5
,[0,0,2,4,2,

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(\sqrt{d}\sqrt{-e+ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(log(2*x*(d^(1/2)*(-e)^(1/2)+e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(log(-2*x*(d^(1/2)*(-e)^(1/2)-e*x)/(e*x^2+d))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{\log\left(-1 + 4x + 4\sqrt{(-1+x)x}\right)}{x^{3/2}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(log(-1+4*x+4*((x-1)*x)^(1/2))/x^(3/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2*(2*sqrt(2)*atan(4*sqrt(sageVARx)/sqrt(2))-2*(-2*(1/2*pi*sign(-sqrt(sageVARx)+sqrt(sageVARx-1))+atan(1/2*((-sqrt(sageVARx)+sqrt(sageVARx-1))^2-1)/(-sqrt(sageVARx)+sqrt(sa`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \cos(a + bx) \log\left(\cos\left(\frac{a}{2} + \frac{bx}{2}\right) \sin\left(\frac{a}{2} + \frac{bx}{2}\right)\right) dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)*log(cos(1/2*a+1/2*b*x)*sin(1/2*a+1/2*b*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n)) \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*log(c*x^n))*log(d*(1/d+f*x^2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n))^2 \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*log(c*x^n))^2*log(d*(1/d+f*x^2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \log(cx^n))^3 \log\left(d\left(\frac{1}{d} + fx^2\right)\right) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*log(c*x^n))^3*log(d*(1/d+f*x^2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int (gx)^m (a + b \log(cx^n))^p (d + e \log(fx^r)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x)^m*(a+b*log(c*x^n))^p*(d+e*log(f*x^r)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,2,2,0,2,0,0]}+%%{2,[0,2,2,2,0,1,0,0]}+%%{1,[0,2,2,2,0,0,0,0]}+%%{1,[0,2,2,2,0,0,0,0]}+%%{1,[0,2,2,2,0,0,0,0]}`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arcsinh}(ax) \log(cx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*arcsinh(a*x)*log(c*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%}+%%{-1,[0,1,0,0]%%} / %%{1,[0,0,0,1]%%}
Error: B`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arccosh}(ax) \log(cx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*arccosh(a*x)*log(c*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 197

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arcsinh}(ax)^2 \log(cx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*arcsinh(a*x)^2*log(c*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) \operatorname{arccosh}(ax)^2 \log(cx^n) dx = \text{Exception raised: TypeError}$$

input `integrate((e*x^2+d)*arccosh(a*x)^2*log(c*x^n),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} (A + B \log(e(a + bx)^n (c + dx)^{-n}))^p dx$$

= Exception raised: RuntimeError

input `integrate((b*g*x+a*g)^m*(d*i*x+c*i)^(-2-m)*(A+B*log(e*(b*x+a)^n/((d*x+c)^n)))^p,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,5,5,0,2,2,3,3,0,0,0,2]%%}+%%{-2,[0,0,5,4,1,3,1,3,3,0,0,0,2]%%}+%%{1,[0,0,5,3,2,

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m (A + B \log(e(a + bx)^n (c + dx)^{-n}))^p dx$$

= Exception raised: RuntimeError

input `integrate((b*g*x+a*g)^(-2-m)*(d*i*x+c*i)^m*(A+B*log(e*(b*x+a)^n/((d*x+c)^n)))^p,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,5,5,0,2,2,3,3,0,0,0,2]%%}+%%{-2,[0,0,5,4,1,3,1,3,3,0,0,0,2]%%}+%%{1,[0,0,5,3,2,

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^m*(a+b*log(c*(e*x+d)^n))^n,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,7,4,0,5,0,3,5,0,0,0]%%}+%%{5,[0,0,6,4,0,4,1,3,5,0,0,0]%%}+%%{2,[0,0,6,3,1,5,0,3`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{(h + ix)^q (a + b \log(c(e + fx)))^p}{de + dfx} dx = \text{Exception raised: RuntimeError}$$

input `integrate((i*x+h)^q*(a+b*log(c*(f*x+e)))^p/(d*f*x+d*e),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,5,0,2,0,5,0,3,0,2,0]%%}+%%{5,[0,0,4,0,2,0,4,1,3,0,2,0]%%}+%%{10,[0,0,3,0,2,0,3,`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(e + fx)))^p}{(de + dfx)(h + ix)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*log(c*(f*x+e)))^p/(d*f*x+d*e)/(i*x+h)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0,0,0]} / %%{1,[0,0,1,1,1,0,0]}+%%{-1,[0,0,0,1,0`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x+g)^m*(a+b*log(c*(d*(f*x+e)^p)^q))^n,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,0,7,4,0,5,0,3,3,3,0,2,0,0,0]}+%%{5,[0,0,6,4,0,4,1,3,3,3,0,2,0,0,0]}+%%{2,[0,0`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 532

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^m \log(c(d + ex^n)^p) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^m*log(c*(d+e*x^n)^p),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[
0,0,6,3,6,0,2,2,0,1,0]%%}+%%{1,[0,0,6,2,6,1,2,2,0,0,1]%%}+%%{1,[0,0,6,
2,6,0,2,2,0,`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d + dgx^2)^p)}{x^2 \sqrt{4 + gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*g*x^2+4*d)^p))/x^2/(g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 672

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d + dgx^2)^p)}{x^4 \sqrt{4 + gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*g*x^2+4*d)^p))/x^4/(g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 673

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d + dgx^2)^p)}{x^6 \sqrt{4 + gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*g*x^2+4*d)^p))/x^6/(g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 674

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d + dgx^2)^p)}{x^8 \sqrt{4 + gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(d*g*x^2+4*d)^p))/x^8/(g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 675

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d - dgx^2)^p)}{x^2 \sqrt{4 - gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(-d*g*x^2+4*d)^p))/x^2/(-g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 685

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d - dgx^2)^p)}{x^4 \sqrt{4 - gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(-d*g*x^2+4*d)^p))/x^4/(-g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 686

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d - dgx^2)^p)}{x^6 \sqrt{4 - gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(-d*g*x^2+4*d)^p))/x^6/(-g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 687

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(4d - dgx^2)^p)}{x^8 \sqrt{4 - gx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*log(c*(-d*g*x^2+4*d)^p))/x^8/(-g*x^2+4)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 688

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{\sqrt{a + a \sin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cos(c + dx)}}{\sqrt{a + a \sin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(1/2)/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{9/2}}{(a + b \sin(c + dx))^2} dx = \text{Exception raised: AttributeError}$$

input `integrate((e*cos(d*x+c))^(9/2)/(a+b*sin(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 582

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sin(e + fx)} \tan^4(e + fx) dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(1/2)*tan(f*x+e)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/181_4.1.1.3

Test file number 181

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sin(c + dx)} \sqrt{a + b \sin(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(d*x+c)^(1/2)*(a+b*sin(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 303

Giac [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \frac{a + a \sin(e + fx)}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 305

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^2 (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^3 (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 375

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 387

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{15/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(15/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sin(e + fx))^{5/2}}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sin(f*x+e))^(5/2)/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sin(e + fx))^{3/2}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sin(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0,0,0,0]}%% / %%{16,[0,0,0,1,1,1,1]}%% Error: Bad Argum`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 558

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 559

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 560

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2}(c + d \sin(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2} (c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{3/2} (c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 564

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^3}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 565

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sin(e + fx))^2}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 566

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sin(e + fx)}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 567

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2}(c + d \sin(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 569

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2} (c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sin(e + fx))^{5/2} (c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 571

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{3/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{5/2}}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{5/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(11/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{5/2}}{(c - c \sin(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(13/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(11/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(13/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{15/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(15/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^{7/2}}{(c - c \sin(e + fx))^{17/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^(7/2)/(c-c*sin(f*x+e))^(17/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{3/2}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(a + a \sin(e + fx))^m}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(f*x+e)^2*(a+a*sin(f*x+e))^m/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2}}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*cos(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) \cot^3(c + dx)}{\sqrt{a + a \sin(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*cot(d*x+c)^3/(a+a*sin(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{%%{[18874368,0]:[1,0,-2]%%},[1]%%},0]:[1,0,%%{-1,[1]%%}]`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 468

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sin^n(c + dx)(a + b \sin(c + dx))^4 dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^5*sin(d*x+c)^n*(a+b*sin(d*x+c))^4,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,12,0]%%}+%%{6,[0,1,10,0]%%}+%%{15,[0,1,8,0]%%}+%%{20,[0,1,6,0]%%}+%%{15,[0,

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1505

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sin^n(c + dx)(a + b \sin(c + dx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^5*sin(d*x+c)^n*(a+b*sin(d*x+c))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,12,0]%%}+%%{6,[0,1,10,0]%%}+%%{15,[0,1,8,0]%%}+%%{20,[0,1,6,0]%%}+%%{15,[0,

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1506

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sin^n(c + dx)(a + b \sin(c + dx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^5*sin(d*x+c)^n*(a+b*sin(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,12,0]%%}+%%{6,[0,1,10,0]%%}+%%{15,[0,1,8,0]%%}+%%{20,[0,1,6,0]%%}+%%{15,[0,`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1507

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sin^n(c + dx)(a + b \sin(c + dx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^5*sin(d*x+c)^n*(a+b*sin(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,12,0]%%}+%%{6,[0,1,10,0]%%}+%%{15,[0,1,8,0]%%}+%%{20,[0,1,6,0]%%}+%%{15,[0,`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1508

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^{4/3}}{a + b \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(f*x+e)^2*(c+d*sin(f*x+e))^(4/3)/(a+b*sin(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1515

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^{4/3}}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(f*x+e)^2*(c+d*sin(f*x+e))^(4/3)/(a+b*sin(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1516

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{\sqrt{a + a \sin(e + fx)} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/184_4.1.2.3

Test file number 184

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{g \sin(e + fx)} \sqrt{a + a \sin(e + fx)} (c + d \sin(e + fx))} dx$$

= Exception raised: TypeError

input `integrate(1/(g*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(1/2)/(c+d*sin(f*x+e)),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Valueindex.cc index_m operator + Error: Bad Argument ValueDon
e`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/184_4.1.2.3

Test file number 184

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \sin(e + fx))^n (A + B \sin(e + fx))}{a + a \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sin(f*x+e))^n*(A+B*sin(f*x+e))/(a+a*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \sin(e + fx))^n (A + B \sin(e + fx))}{(a + a \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sin(f*x+e))^n*(A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \sin(e + fx))^n (A + B \sin(e + fx))}{(a + a \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d*sin(f*x+e))^n*(A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^2 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^2*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(9/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^3 (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^3*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(11/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx)) \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^2 (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^2/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^3 (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^3/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(e + fx)}(A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(1/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(e + fx)}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(1/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(e + fx)}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(1/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + a \sin(e + fx)}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(1/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(9/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{3/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(3/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(11/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}(A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(9/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(11/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{5/2}(A + B \sin(e + fx))}{(c - c \sin(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(5/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(13/2), x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2}(A + B \sin(e + fx))}{\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(1/2), x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(7/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(9/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(11/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(13/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{15/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(15/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^{7/2} (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{17/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^(7/2)*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(17/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{5/2}}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(5/2)/(a+a*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{3/2}}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))\sqrt{c - c \sin(e + fx)}}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}\sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{7/2}}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(7/2)/(a+a*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{5/2}}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(5/2)/(a+a*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{3/2}}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))\sqrt{c - c \sin(e + fx)}}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c-c*sin(f*x+e))^(5/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{9/2}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(9/2)/(a+a*sin(f*x+e))^(5/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{7/2}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(7/2)/(a+a*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{5/2}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(5/2)/(a+a*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c - c \sin(e + fx))^{3/2}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(3/2)/(a+a*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))\sqrt{c - c \sin(e + fx)}}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c-c*sin(f*x+e))^(1/2)/(a+a*sin(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} \sqrt{c - c \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{c - c \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,3,0,0,0,0]}%%}+%%{3,[0,1,1,0,0,0,0]} / %%{16,[0,0,0,1,1`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^3}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^2}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}(c + d \sin(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c+d*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}(c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{\sqrt{a + a \sin(e + fx)}(c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(1/2)/(c+d*sin(f*x+e))^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^3}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^2}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2}(c + d \sin(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} (c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{3/2} (c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(3/2)/(c+d*sin(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^3}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^3/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^2}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^2/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c + d \sin(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx)}{(a + a \sin(e + fx))^{5/2} (c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))/(a+a*sin(f*x+e))^(5/2)/(c+d*sin(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^n}{a + a \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^n/(a+a*sin(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \sin(e + fx))(c + d \sin(e + fx))^n}{(a + a \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e))*(c+d*sin(f*x+e))^n/(a+a*sin(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{c + d \sin(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c+d*sin(f*x+e)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Valu
e
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c + d \sin(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^2,x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Valu
e
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx))}{(c + d \sin(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e))/(c+d*sin(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,3,0,0,0,0]%%}+%%{3,[0,1,1,0,0,0,0]%%} / %%{16,[0,0,0,1,1

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^m*(A+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(5/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sin^2(e + fx)}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*sin(f*x+e)^2)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(3/2)
,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sin(e + fx) + C \sin^2(e + fx)}{\sqrt{a + a \sin(e + fx)}(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sin(f*x+e)+C*sin(f*x+e)^2)/(a+a*sin(f*x+e))^(1/2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx) + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e)+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,3,0,0,0,0]}+%%{3,[0,1,1,0,0,0,0]} / %%{16,[0,0,0,1,1`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sin(e + fx))^m (A + B \sin(e + fx) + C \sin^2(e + fx))}{(c - c \sin(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+a*sin(f*x+e))^m*(A+B*sin(f*x+e)+C*sin(f*x+e)^2)/(c-c*sin(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error index.cc index_gcd Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a - a \sin^{10}(x)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a-a*sin(x)^10),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDegree mismatch inside
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a - a \sin^{16}(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-a*sin(x)^16),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a + a \sin^8(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sin(x)^8),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/188_4.1.7.1

Test file number 188

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) \sqrt{a + b \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)*(a+b*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionDegree mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \sin^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)*(a+b*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) (a + b \sin^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^3*(a+b*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{\sqrt{a + b \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)/(a+b*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx) \sqrt{a - a \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)*(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) \sqrt{a - a \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3*(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \cot^2(e + fx) \sqrt{a - a \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^2*(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \cot^4(e + fx) \sqrt{a - a \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^4*(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int \cot^6(e + fx) \sqrt{a - a \sin^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^6*(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^2/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^4(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^4/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^6(e + fx)}{\sqrt{a - a \sin^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^6/(a-a*sin(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^2/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^4(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^4/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^6(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^6/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^8(e + fx)}{(a - a \sin^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^8/(a-a*sin(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \sin^2(e + fx)} \tan^5(e + fx) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sin(f*x+e)^2)^(1/2)*tan(f*x+e)^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int (ce + dex)^{4/3} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^(4/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int (ce + dex)^{2/3} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^(2/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{ce + dex} \sin(a + b(c + dx)^{2/3}) dx = \text{Exception raised: TypeError}$$

input `integrate((d*e*x+c*e)^(1/3)*sin(a+b*(d*x+c)^(2/3)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{\sqrt[3]{ce + dex}} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{4/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(4/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(a + b(c + dx)^{2/3})}{(ce + dex)^{5/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(a+b*(d*x+c)^(2/3))/(d*e*x+c*e)^(5/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/194_4.1.12

Test file number 194

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \sin(3 \cot^{-1}(a + bx)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(3*arccot(b*x+a)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:int(sage0,sageVARx) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/196_4.1.14

Test file number 196

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \sin^2(3 \cot^{-1}(a + bx)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(3*arccot(b*x+a))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/196_4.1.14

Test file number 196

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \sin^2(2 \sec^{-1}(a + bx)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(2*arcsec(b*x+a))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:int() Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/196_4.1.14

Test file number 196

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \sin^2(3 \sec^{-1}(a + bx)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(3*arcsec(b*x+a))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:int(sage0,sageVARx) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/196_4.1.14

Test file number 196

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \sin^2(2 \csc^{-1}(a + bx)) dx = \text{Exception raised: TypeError}$$

input `integrate(sin(2*arccsc(b*x+a))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:int() Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/196_4.1.14

Test file number 196

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{11}{2}}(c + dx)}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(11/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{9}{2}}(c + dx)}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(9/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx)}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx)}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cos(c+dx)}\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(c+dx)\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{5}{2}}(c+dx)\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{7}{2}}(c+dx)\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{9}{2}}(c+dx)\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(9/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}}{(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cos(c+dx)}(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{3}{2}}(c+dx)(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{5}{2}}(c+dx)(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{7}{2}}(c+dx)(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{13}{2}}(c+dx)}{(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(13/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{11}{2}}(c+dx)}{(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(11/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{9}{2}}(c+dx)}{(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(9/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx)}{(b \cos(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)}{(b \cos(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx)}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 197

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cos(c+dx)}(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{3/2}(c+dx)(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{5}{2}}(c+dx)(b\cos(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/197_4.2.0

Test file number 197

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c+dx)}{\sqrt{a+a\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{-\frac{5B}{3} + B \cos(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-5/3*B+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 786

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{5/2}(c + dx)(A + B \cos(c + dx))}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 866

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+B\cos(c+dx))}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 867

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+B\cos(c+dx))}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 868

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{\cos(c + dx)} \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 869

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{3}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 870

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{5}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c))/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 871

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{7}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c))/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 872

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c+dx)(A+B\cos(c+dx))}{(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 873

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)(A+B\cos(c+dx))}{(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 874

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx)(A + B \cos(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 875

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}(A + B \cos(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 876

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{\cos(c + dx)}(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 877

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{3/2}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 878

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 879

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{9}{2}}(c + dx)(A + B \cos(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(9/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 880

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx)(A + B \cos(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 881

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx)(A + B \cos(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 882

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx)(A + B \cos(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 883

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}(A + B \cos(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c))/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 884

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{\cos(c + dx)}(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 885

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\cos^{3/2}(c + dx)(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/204_4.2.2.1

Test file number 204

Integral number in file 886

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algorithm m="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algorithm m="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)(A + B \cos(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c))*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{(c \cos(e + fx))^m (A + B \cos(e + fx))}{a + b \cos(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*cos(f*x+e))^m*(A+B*cos(f*x+e))/(a+b*cos(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0,0]%%} / %%{1,[0,0,1,0]%%}+%%{-1,[0,0,0,1]%%} Error:`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(e + fx))(c \sec(e + fx))^m}{a + b \cos(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(f*x+e))*(c*sec(f*x+e))^m/(a+b*cos(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0,0]%%} / %%{1,[0,0,1,0]%%}+%%{-1,[0,0,0,1]%%} } Error:

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/207_4.2.3.1

Test file number 207

Integral number in file 640

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + C \cos^2(c + dx))}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+C\cos^2(c+dx))}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+C\cos^2(c+dx))}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\sqrt{\cos(c + dx)} \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{7}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{9}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(9/2)/(b*cos(d*x+c))^(1/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx) (A + C \cos^2(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(3/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{A+C\cos^2(c+dx)}{\sqrt{\cos(c+dx)}(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{7}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(3/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{9}{2}}(c + dx)(A + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(9/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c+dx)(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(7/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c+dx)(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(5/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(3/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+C\cos^2(c+dx))}{(b\cos(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(1/2)*(A+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\sqrt{\cos(c + dx)}(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{3/2}(c + dx)(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{\sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(
1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c+dx)(A+B\cos(c+dx)+C\cos^2(c+dx))}{\sqrt{b\cos(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+B\cos(c+dx)+C\cos^2(c+dx))}{\sqrt{b\cos(c+dx)}} dx$$

= Exception raised: TypeError

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{\cos(c + dx)} \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{7}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{9}{2}}(c + dx) \sqrt{b \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(9/2)/(b*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(7/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c+dx)}(A+B\cos(c+dx)+C\cos^2(c+dx))}{(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\cos(c+dx)+C\cos^2(c+dx)}{\sqrt{\cos(c+dx)}(b\cos(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{7}{2}}(c + dx)(b \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(7/2)/(b*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{9}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(9/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{7}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(7/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 332

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{5}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(5/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^{\frac{3}{2}}(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(3/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 334

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cos(c + dx)}(A + B \cos(c + dx) + C \cos^2(c + dx))}{(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^(1/2)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{\cos(c + dx)}(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(1/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{3/2}(c + dx)(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(3/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(b \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/cos(d*x+c)^(5/2)/(b*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/208_4.2.4.1

Test file number 208

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^5(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^5/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm
m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm
m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 281

Giac [F(-2)]

Exception generated.

$$\int \frac{B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(1/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^5(c + dx)}{\sqrt{a + a \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^5/(a+a*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^4(c + dx)}{(a + a \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^4/(a+a*cos(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^3*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)^2*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (A + B \cos(c + dx) + C \cos^2(c + dx))}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \cos(c + dx) + C \cos^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 421

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^2(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^2/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \cos(c + dx) + C \cos^2(c + dx)) \sec^3(c + dx)}{(a + a \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*cos(d*x+c)+C*cos(d*x+c)^2)*sec(d*x+c)^3/(a+a*cos(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/209_4.2.4.2

Test file number 209

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1 + \cos^8(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1+cos(x)^8),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.2_Cosine/210_4.2.7.1

Test file number 210

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int (b \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c))^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[1, [5,19]%%]+%%{8, [5,17]%%}+%%{28, [5,15]%%}+%%{56, [5,13]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4, 14]%%}+%%{6, [4, 12]%%}+%%{15, [4, 10]%%}+%%{20, [4, 8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int (b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3, 9]%%}+%%{4, [3, 7]%%}+%%{6, [3, 5]%%}+%%{4, [3, 3]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \sqrt{d \tan(a + bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) (d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \sin(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)*(d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx)(d \tan(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^3*(d*tan(b*x+a))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \sin(a + bx)(d \tan(a + bx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)*(d*tan(b*x+a))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int (a \sin(e + fx))^{5/2} (b \tan(e + fx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*sin(f*x+e))^(5/2)*(b*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int (a \sin(e + fx))^{3/2} (b \tan(e + fx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a*sin(f*x+e))^(3/2)*(b*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(b \tan(e + fx))^{3/2}}{(a \sin(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*tan(f*x+e))^(3/2)/(a*sin(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{(b \tan(e + fx))^{3/2}}{(a \sin(e + fx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((b*tan(f*x+e))^(3/2)/(a*sin(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sin(e + fx))^{3/2}(b \tan(e + fx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(a*sin(f*x+e))^(3/2)/(b*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int (b \sin(e + fx))^{4/3} (d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*sin(f*x+e))^(4/3)*(d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{i,[2,2,2]}+%%{%%{%%{%%{-i,[10]}+%%{5*i,[8]}+%%{-10*i`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \cos^3(e + fx) \sqrt{d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(f*x+e)^3*(d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int (d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,9]%%}+%%{4, [3,7]%%}+%%{6, [3,5]%%}+%%{4, [3,3]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \cos(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)*(d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \cos^3(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^3*(d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \cos^5(a + bx)(d \tan(a + bx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^5*(d*tan(b*x+a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[4,14]%%}+%%{6,[4,12]%%}+%%{15,[4,10]%%}+%%{20,[4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{(d \sec(e + fx))^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2/(d*sec(f*x+e))^(2/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(e + fx)}{(d \sec(e + fx))^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4/(d*sec(f*x+e))^(2/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,2,0,0]%%}+%%{-1, [0,1,0,0,0]%%} / %%{1, [0,0,0,1,1]%%} Er

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 290

Giac [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{5/2} (b \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sec(f*x+e))^(5/2)*(b*tan(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4,14]%%}+%%{6, [4,12]%%}+%%{15, [4,10]%%}+%%{20, [4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int (d \sec(e + fx))^{3/2} (b \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sec(f*x+e))^(3/2)*(b*tan(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[4,14]%%}+%%{6,[4,12]%%}+%%{15,[4,10]%%}+%%{20,[4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d \sec(e + fx)} (b \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*sec(f*x+e))^(1/2)*(b*tan(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[4,14]%%}+%%{6,[4,12]%%}+%%{15,[4,10]%%}+%%{20,[4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{(b \tan(e + fx))^{5/2}}{(d \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tan(f*x+e))^(5/2)/(d*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [4,14]%%}+%%{6, [4,12]%%}+%%{15, [4,10]%%}+%%{20, [4,8]%%}`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/214_4.3.0

Test file number 214

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [2,0]%%}+%%{[-2,0]:[1,0,%%{1, [1]%%}]%%}, [1,0]%%}+%%{%%}`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1, [2,0]%%}+%%{%%[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%
}+%%{%%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1, [2,0]%%}+%%{%%[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%
}+%%{%%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)} (a + ia \tan(c + dx))^4 dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1, [2,0]%%}+%%{%%[-2,0]: [1,0,%%{1, [1]%%}]%%}, [1,0]%%
}+%%{%%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \sec^8(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int \sec^6(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \sec^4(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 281

Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \cos^4(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \cos^6(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \sec^7(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^7*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \sec^3(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 288

Giac [F(-2)]

Exception generated.

$$\int \sec(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \cos(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 290

Giac [F(-2)]

Exception generated.

$$\int \cos^3(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 291

Giac [F(-2)]

Exception generated.

$$\int \cos^5(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^5*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 292

Giac [F(-2)]

Exception generated.

$$\int \sec^8(c + dx) (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 293

Giac [F(-2)]

Exception generated.

$$\int \sec^6(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 294

Giac [F(-2)]

Exception generated.

$$\int \sec^4(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 297

Giac [F(-2)]

Exception generated.

$$\int \cos^4(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int \cos^6(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \sec^5(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \cos(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 303

Giac [F(-2)]

Exception generated.

$$\int \cos^3(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \cos^5(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^5*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 305

Giac [F(-2)]

Exception generated.

$$\int \sec^8(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 306

Giac [F(-2)]

Exception generated.

$$\int \sec^6(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int \sec^4(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \cos^4(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \cos^6(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \sec^3(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \cos(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \cos^3(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int \cos^5(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^5*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \cos^7(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^7*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \sec^8(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \sec^6(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \sec^4(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \sec^2(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \cos^4(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \cos^6(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \sec(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \cos(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \cos^3(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \cos^5(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^5*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \cos^7(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^7*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \cos^9(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^9*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \cos^{11}(c + dx)(a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^11*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 332

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^8(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 334

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^9(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^9/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^7/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 343

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^8(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 348

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^6(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^6/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 353

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{11}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^11/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^9(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^9/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^7/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 356

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{10}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^10/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^8(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{13}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^13/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{11}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^11/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^9(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^9/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^7/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 375

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 376

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 377

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{10}(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^10/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^8(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^8/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^6(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^6/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^4/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^2/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{13}(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^13/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 385

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{11}(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^11/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 386

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^9(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^9/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 387

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^7(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^7/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^5/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)^3/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 390

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(d*x+c)/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^3/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^{3/2} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(3/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\sqrt{e \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \sec(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*sec(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^{5/2} (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(5/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(3/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)} (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\sqrt{e \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/(e*sec(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{(e \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/(e*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{(e \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/(e*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{(e \sec(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/(e*sec(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{(e \sec(c + dx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/(e*sec(d*x+c))^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(3/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \sec(c + dx)} (a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\sqrt{e \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{(e \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{(e \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{(e \sec(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{(e \sec(c + dx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{(e \sec(c + dx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/(e*sec(d*x+c))^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 421

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{7/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 427

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{5/2} (a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{9/2}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(9/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/2}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/2}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{3/2}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \sec(c + dx)}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \sec(c + dx)}(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 435

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{3/2} (a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 436

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{7/3}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(7/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 437

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{5/3}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(5/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 438

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^{2/3}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(2/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 439

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{e \sec(c + dx)}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^(1/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{e \sec(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(1/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 441

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \sec(c + dx))^{4/3} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*sec(d*x+c))^(4/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^m (a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m*(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^m (a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 458

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^m (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 459

Giac [F(-2)]

Exception generated.

$$\int (e \sec(c + dx))^m \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 460

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 461

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 462

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sec(c + dx))^m}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sec(d*x+c))^m/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 463

Giac [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(c + dx)}{\sqrt{e \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))/(e*cos(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{-4, [1]%%}, 0]: [1, 0, %%{1, [1]%%}]%%, [2, 1]%%}+%%
{%%{8, [2
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 668

Giac [F(-2)]

Exception generated.

$$\int (e \cos(c + dx))^{7/2} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*cos(d*x+c))^(7/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 682

Giac [F(-2)]

Exception generated.

$$\int (e \cos(c + dx))^{5/2} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(5/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 683

Giac [F(-2)]

Exception generated.

$$\int (e \cos(c + dx))^{3/2} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(3/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 684

Giac [F(-2)]

Exception generated.

$$\int \sqrt{e \cos(c + dx)} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(1/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 685

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\sqrt{e \cos(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*cos(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 686

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \cos(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*cos(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 687

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \cos(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/(e*cos(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 688

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{(e \cos(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(1/2)/(e*cos(d*x+c))^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 689

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{5/2}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 690

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^{3/2}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 691

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{e \cos(c + dx)}}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 692

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{e \cos(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*cos(d*x+c))^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 693

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{3/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*cos(d*x+c))^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 694

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{5/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*cos(d*x+c))^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 695

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(e \cos(c + dx))^{7/2} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(e*cos(d*x+c))^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 696

Giac [F(-2)]

Exception generated.

$$\int (e \cos(c + dx))^m \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^m*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 702

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \cos(c + dx))^m}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((e*cos(d*x+c))^m/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 703

Giac [F(-2)]

Exception generated.

$$\int \csc^2(c + dx)(a + b \tan(c + dx))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^2*(a+b*tan(d*x+c))^n,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{4,[0,0,1,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \csc^4(c + dx)(a + b \tan(c + dx))^n dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(d*x+c)^4*(a+b*tan(d*x+c))^n,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0,0]%%}+%%{3,[0,1,0,0,0]%%} / %%{16,[0,0,0,1,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \tan^4(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^5/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(d*x+c))^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+ia\tan(c+dx))^{3/2}}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 197

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+ia\tan(c+dx))^{5/2}}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 206

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 208

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/tan(d*x+c)^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{7/2}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 221

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(9/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{(a + ia \tan(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{(a + ia \tan(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{4}{3}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(4/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{2}{3}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(2/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{\tan(c+dx)} \sqrt{a+ia \tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/3)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+ia \tan(c+dx)}}{\sqrt[3]{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(1/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{2}{3}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\tan^{\frac{4}{3}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/tan(d*x+c)^(4/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{4}{3}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(4/3)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{2}{3}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(2/3)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \sqrt[3]{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/3)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+ia\tan(c+dx))^{3/2}}{\sqrt[3]{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{2/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\tan^{4/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/tan(d*x+c)^(4/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{\tan(c+dx)}}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDegree mismatch inside`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{2}{3}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDegree mismat
ch inside

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDegree mismat
ch inside

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{4}{3}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{2}{3}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{\tan(c+dx)}}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[3]{\tan(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDegree mismat
ch inside`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{2}{3}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(2/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDegree mismat
ch inside

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{4}{3}}(c+dx)(a+ia \tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(4/3)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionUnable to transpose Error: Bad Argument ValueDegree mismat
ch inside

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^n (a + ia \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^n*(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^n \sqrt{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^n*(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^n}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^n/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{5/2} (a + a \tan(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)*(a+a*tan(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[5,19]%%}+%%{8,[5,17]%%}+%%{28,[5,15]%%}+%%{56
,[5,13]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{3/2} (a + a \tan(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)*(a+a*tan(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[4,14]%%}+%%{6,[4,12]%%}+%%{15,[4,10]%%}+%%{20
,[4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d \tan(e + fx)}(a + a \tan(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)*(a+a*tan(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9]%%}+%%{4, [3,7]%%}+%%{6, [3,5]%%}+%%{4, [3,3]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{5/2}(a + a \tan(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)*(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,24]%%}+%%{10, [6,22]%%}+%%{45, [6,20]%%}+%%{120, [6,18]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 343

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{3/2} (a + a \tan(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)*(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[5,19]%%}+%%{8,[5,17]%%}+%%{28,[5,15]%%}+%%{56,[5,13]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d \tan(e + fx)} (a + a \tan(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)*(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[4,14]%%}+%%{6,[4,12]%%}+%%{15,[4,10]%%}+%%{20,[4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \tan(e + fx))^2}{\sqrt{d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*tan(f*x+e))^2/(d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [3,9]%%}+%%{4, [3,7]%%}+%%{6, [3,5]%%}+%%{4, [3,3
]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{7/2} (a + a \tan(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(7/2)*(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [8,34]%%}+%%{14, [8,32]%%}+%%{91, [8,30]%%}+%%{3
64, [8,28]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{5/2} (a + a \tan(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)*(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [7,29]%%}+%%{12, [7,27]%%}+%%{66, [7,25]%%}+%%{20, [7,23]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int (d \tan(e + fx))^{3/2} (a + a \tan(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)*(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,24]%%}+%%{10, [6,22]%%}+%%{45, [6,20]%%}+%%{120, [6,18]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d \tan(e + fx)} (a + a \tan(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)*(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [5,19]%%}+%%{8, [5,17]%%}+%%{28, [5,15]%%}+%%{56, [5,13]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \tan(e + fx))^3}{\sqrt{d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*tan(f*x+e))^3/(d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4,14]%%}+%%{6, [4,12]%%}+%%{15, [4,10]%%}+%%{20, [4,8]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 353

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \tan(e + fx))^3}{(d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*tan(f*x+e))^3/(d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{a + a \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+a*tan(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [4,13]%%}+%%{6, [4,11]%%}+%%{15, [4,9]%%}+%%{20,
[4,7]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{a + a \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+a*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{a + a \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+a*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d \tan(e + fx))^{3/2} (a + a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*tan(f*x+e))^(3/2)/(a+a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{9/2}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(9/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,21]%%}+%%{10, [6,19]%%}+%%{45, [6,17]%%}+%%{120, [6,15]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{7/2}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(7/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{5/2}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(5/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \tan(e + fx))^{3/2}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(3/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d \tan(e + fx)}}{(a + a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((d*tan(f*x+e))^(1/2)/(a+a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \tan^5(e + fx) \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^5*(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [29]%%}+%%{12, [27]%%}+%%{66, [25]%%}+%%{220, [23
]%%}+%%`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int \tan^3(e + fx) \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^3*(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [19]%%}+%%{8, [17]%%}+%%{28, [15]%%}+%%{56, [13]%%}+%%{7

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \tan(e + fx) \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)*(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [9]%%}+%%{4, [7]%%}+%%{6, [5]%%}+%%{4, [3]%%}+%%{1, [1]%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \tan^4(e + fx) \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4*(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [24]%%}+%%{10, [22]%%}+%%{45, [20]%%}+%%{120, [18]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \tan^2(e + fx) \sqrt{1 + \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2*(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [14]%%}+%%{6, [12]%%}+%%{15, [10]%%}+%%{20, [8]%%}+%%{15

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 385

Giac [F(-2)]

Exception generated.

$$\int \tan^5(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^5*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [34]%%}+%%{14, [32]%%}+%%{91, [30]%%}+%%{364, [28
]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \tan^3(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^3*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [24]%%}+%%{10, [22]%%}+%%{45, [20]%%}+%%{120, [18
]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 390

Giac [F(-2)]

Exception generated.

$$\int \tan(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [14]%%}+%%{6, [12]%%}+%%{15, [10]%%}+%%{20, [8]%%
%}+%%{15

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^5*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \tan^4(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [29]%%}+%%{12, [27]%%}+%%{66, [25]%%}+%%{220, [23]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \tan^2(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [19]%%}+%%{8, [17]%%}+%%{28, [15]%%}+%%{56, [13]%%}+%%{7

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int (1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [9]%%}+%%{4, [7]%%}+%%{6, [5]%%}+%%{4, [3]%%}+%%
%{1, [1]%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int \cot^2(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^2*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \cot^4(e + fx)(1 + \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^4*(1+tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^5(e + fx)}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^5/(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [24]%%}+%%{10, [22]%%}+%%{45, [20]%%}+%%{120, [18
]%%}+%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(e + fx)}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^3/(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [14]%%}+%%{6, [12]%%}+%%{15, [10]%%}+%%{20, [8]%%
%}+%%{15

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(e + fx)}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)/(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.Non regula
r value [

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(e + fx)}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4/(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [19]%%}+%%{8, [17]%%}+%%{28, [15]%%}+%%{56, [13]%%
%%}+%%{7

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(e + fx)}{\sqrt{1 + \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2/(1+tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [9]%%}+%%{4, [7]%%}+%%{6, [5]%%}+%%{4, [3]%%}+%%
%{1, [1]%%

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \tan^4(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}
+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 503

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+
%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 504

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 505

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 506

Giac [F(-2)]

Exception generated.

$$\int \tan^4(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,29,11]%%}+%%{12, [0,27,11]%%}+%%{66, [0,25,11]%%}+%%{2

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 511

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 512

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+
%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 513

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 514

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 516

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 517

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 518

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,29,11]%%}+%%{12, [0,27,11]%%}+%%{66, [0,25,11]%%
%%}+%%{2

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 519

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}
+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 520

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,19,7]}%%}+%%{8, [0,17,7]}%%}+%%{28, [0,15,7]}%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 521

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]}%%}+%%{6, [0,12,5]}%%}+%%{15, [0,10,5]}%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 522

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,13,4]%%}+%%{6, [0,11,4]%%}+%%{15, [0,9,4]%%}+
%%{20, [0,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 523

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 524

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 525

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 526

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 527

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^5/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 528

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^4/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 529

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 530

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 531

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 540

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 541

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 542

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4,13,4]%%}+%%{6, [4,11,4]%%}+%%{15, [4,9,4]%%}+%%{20, [4,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 543

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,17,7]%%}+%%{8, [3,15,7]%%}+%%{28, [3,13,7]%%}+%%{56, [3

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 544

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1, [6,21,6]%%}+%%{-10, [6,19,6]%%}+%%{-45, [6,17,6]%%}+%%{-

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 545

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 548

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 549

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 550

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [8,18,6]%%}+%%{8, [8,16,6]%%}+%%{28, [8,14,6]%%}+%%{56, [8

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [9,22,7]%%}+%%{10, [9,20,7]%%}+%%{45, [9,18,7]%%}+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(d*x+c))^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [9,19,7]%%}+%%{8, [9,17,7]%%}+%%{28, [9,15,7]%%}+%%{56, [9

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 554

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 555

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 556

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+b\tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 557

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c+dx)(a+b\tan(c+dx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)}(a + b \tan(c + dx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 564

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^2}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^2/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 565

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 569

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)}(a + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 571

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^3}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^3/tan(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 572

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^3}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^3/tan(d*x+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 573

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c + dx)}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(9/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 582

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c + dx)}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 583

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 584

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 585

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 586

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+b\tan(c+dx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 587

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+b\tan(c+dx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 588

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)(a+b\tan(c+dx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 589

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{2}}(c+dx)(a+b\tan(c+dx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(7/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 590

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+b\tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 592

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+b\tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 597

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c+dx)\sqrt{a+b\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 608

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx) \sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 609

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 612

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 613

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 614

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 618

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 619

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 620

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 621

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 622

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 626

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 628

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 629

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 630

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/tan(d*x+c)^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 631

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{7/2}(c + dx)}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 632

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 633

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 634

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 637

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{5}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 638

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{7}{2}}(c+dx)\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 639

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 640

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 641

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 642

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 643

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 644

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{\frac{3}{2}}(c+dx)(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 645

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{9}{2}}(c+dx)}{(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(9/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 647

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{7}{2}}(c+dx)}{(a+b\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 648

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)}{(a+b\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 649

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c + dx)}{(a + b \tan(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 650

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c + dx)}}{(a + b \tan(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 651

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\tan(c+dx)}(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 652

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\tan^{5/2}(c+dx)(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 654

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{2+3\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(2+3*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 663

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{-2+3\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(-2+3*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 664

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}}{\sqrt{-2-3\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)/(-2-3*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 666

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 751

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 752

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 753

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c + dx)} \sqrt{a + ia \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 754

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\sqrt{\cot(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 755

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}}{\cot^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)/cot(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 756

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 757

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 758

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 759

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 760

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2}}{\sqrt{\cot(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 761

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(9/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 762

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 763

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 764

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 765

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 766

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2}}{\sqrt{\cot(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 767

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{\sqrt{a+ia \tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 768

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{\sqrt{a+ia \tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 769

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 770

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 771

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 772

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 773

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 774

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 775

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 776

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 777

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{3}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 778

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 779

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 780

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 781

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c + dx)}}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 783

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 784

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{3/2}(c+dx)(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 785

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 786

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{7}{2}}(c+dx)(a+ia \tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 787

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(9/2)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,9,3]}%%+%%{4, [0,7,3]}%%+%%{6, [0,5,3]}%%+%%{4, [0,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 846

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,9,3]}%%+%%{4, [0,7,3]}%%+%%{6, [0,5,3]}%%+%%{4, [0,3,3]}

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 847

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 848

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 849

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}(a+b\tan(c+dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 850

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+b\tan(c+dx))^{3/2}}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 851

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2}}{\cot^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)/cot(d*x+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 852

Giac [F(-2)]

Exception generated.

$$\int \cot^{11/2}(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(11/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 853

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(9/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 854

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 855

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 856

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 857

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c + dx)}(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 858

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\sqrt{\cot(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 859

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2}}{\cot^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)/cot(d*x+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 860

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c + dx)}(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 870

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{\frac{5}{2}}(c+dx)(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command: INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 872

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)}{(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6,8,5]%%}+%%{15, [6,6,5

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 875

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\cot(c+dx)}(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 877

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cot^{5/2}(c+dx)(a+b\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 879

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 \sqrt{c - ic \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 956

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 \sqrt{c - ic \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 957

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx)) \sqrt{c - ic \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 958

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - ic \tan(e + fx)}}{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 959

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 960

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - i c \tan(e + f x)}}{(a + i a \tan(e + f x))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 961

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 962

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 963

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(c - ict \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 964

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - ict \tan(e + fx))^{3/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 965

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - i c \tan(e + f x))^{3/2}}{(a + i a \tan(e + f x))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 966

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - i c \tan(e + f x))^{3/2}}{(a + i a \tan(e + f x))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 967

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 968

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 969

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(c - ict \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 970

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - ict \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 971

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - i \tan(e + fx))^{5/2}}{(a + i \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 972

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - i \tan(e + fx))^{5/2}}{(a + i \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 973

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 974

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 975

Giac [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 976

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 977

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 978

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 979

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 980

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 981

Giac [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 982

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 983

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 984

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 985

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 986

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 987

Giac [F(-2)]

Exception generated.

$$\int \frac{a + ia \tan(e + fx)}{(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 988

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 989

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 990

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 991

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^m (c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^m*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1059

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^m (c - ic \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^m*(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1060

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^m \sqrt{c - ictan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^m*(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1061

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1062

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1063

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^m}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^m/(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1064

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1137

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1138

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1140

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1141

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1142

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument Typesym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Erro`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1143

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1144

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1146

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1147

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1148

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1149

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)*(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1150

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1152

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1153

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1154

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1155

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1156

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1158

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1159

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1160

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1161

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption sageVARc>=(-sageVARd*t_nostep) ignoredDo
ne
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1162

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1164

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1165

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive assumption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1166

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeRecursive assumption sageVARc>=(-sageVARd*t_nostep) ignoredDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1167

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeRecursive assumption sageVARc>=(-sageVARd*t_nostep) ignoredDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1168

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ia \tan(e + fx)}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^(1/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1170

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{3/2}(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+I*a*tan(f*x+e))^(3/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1171

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ia \tan(e + fx))^{5/2} (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+I*a*tan(f*x+e))^(5/2)/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeRecursive ass
umption s`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1172

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^3 \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0, 19, 7]%%}+%%{8, [0, 17, 7]%%}+%%{28, [0, 15, 7]%%}+
%%{56, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1229

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,14,5]}%%+%%{6,[0,12,5]}%%+%%{15,[0,10,5]}%%+%%{20,[0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1230

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,3]}%%+%%{4,[0,7,3]}%%+%%{6,[0,5,3]}%%+%%{4,[0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1231

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1232

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,6]%%}+%%{6, [0,12,6]%%}+%%{15, [0,10,6]%%}+
%%{20, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1233

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,8]%%}+%%{8, [0,17,8]%%}+%%{28, [0,15,8]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1234

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^3 (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1235

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,19,7]}%%+%%{8,[0,17,7]}%%+%%{28,[0,15,7]}%%+%%{56,[0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1236

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,14,5]}%%+%%{6,[0,12,5]}%%+%%{15,[0,10,5]}%%+%%{20,[0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1237

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1238

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,6]%%}+%%{6, [0,12,6]%%}+%%{15, [0,10,6]%%}+
%%{20, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1239

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,8]%%}+%%{8, [0,17,8]%%}+%%{28, [0,15,8]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1240

Giac [F(-2)]

Exception generated.

$$\int \sqrt{3 + 4 \tan(e + fx)}(a + b \tan(e + fx))^4 dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)*(a+b*tan(f*x+e))^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1024, [24]%%}+%%{10240, [22]%%}+%%{46080, [20]%%}+%%{122880,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1241

Giac [F(-2)]

Exception generated.

$$\int \sqrt{3 + 4 \tan(e + fx)}(a + b \tan(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)*(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{256,[19]%%}+%%{2048,[17]%%}+%%{7168,[15]%%}+%%{14336,[13]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1242

Giac [F(-2)]

Exception generated.

$$\int \sqrt{3 + 4 \tan(e + fx)}(a + b \tan(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)*(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{64,[14]%%}+%%{384,[12]%%}+%%{960,[10]%%}+%%{1280,[8]%%}+`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1243

Giac [F(-2)]

Exception generated.

$$\int \sqrt{3 + 4 \tan(e + fx)}(a + b \tan(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)*(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{16, [9]%%}+%%{64, [7]%%}+%%{96, [5]%%}+%%{64, [3]%%}+%%{16,`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1244

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 + 4 \tan(e + fx)}}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1246

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 + 4 \tan(e + fx)}}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1247

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{3 + 4 \tan(e + fx)}}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[%%{-512, [19]%%}+%%{-4096, [17]%%}+%%{-14336, [15]%%
%}+%%{-2`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1248

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^4}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^4/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+
%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1249

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1250

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1251

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1253

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,6]%%}+%%{6, [0,12,6]%%}+%%{15, [0,10,6]%%}+%%{20, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1254

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1257

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1258

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1259

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3, 19, 8]%%}+%%{8, [3, 17, 8]%%}+%%{28, [3, 15, 8]%%}+%%{56, [3`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1260

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6, 14, 5]%%}+%%{6, [6, 12, 5]%%}+%%{15, [6, 10, 5]%%}+%%{20, [6`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1262

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[6,14,5]}%%+%%{6,[6,12,5]}%%+%%{15,[6,10,5]}%%+%%{20,[6`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1263

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[6,14,5]}%%+%%{6,[6,12,5]}%%+%%{15,[6,10,5]}%%+%%{20,[6`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1264

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1265

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1, [6,22,10]%%}+%%{-10, [6,20,10]%%}+%%{-45, [6,18,10]%%}+%%`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1266

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^4}{\sqrt{3 + 4 \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^4/(3+4*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1267

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{\sqrt{3 + 4 \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3/(3+4*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1268

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{\sqrt{3 + 4 \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2/(3+4*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1269

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{\sqrt{3 + 4 \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))/(3+4*tan(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1270

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3+4\tan(e+fx)}(a+b\tan(e+fx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1272

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{3+4\tan(e+fx)}(a+b\tan(e+fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(3+4*tan(f*x+e))^(1/2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1273

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{(3 + 4 \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3/(3+4*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1274

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{(3 + 4 \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^2/(3+4*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1275

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(3 + 4 \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))/(3+4*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1276

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1277

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1278

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1279

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(3 + 4 \tan(e + fx))^{3/2} (a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(3+4*tan(f*x+e))^(3/2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1280

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c+dx) \sqrt{a + ia \tan(c + dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument Ty

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \tan(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx) \sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c+dx)(a+ia\tan(c+dx))^{3/2}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \tan(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \cot^5(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^5*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^4*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm
m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)} \sqrt{a + ia \tan(c + dx)} (A + B \tan(c + dx)) dx$$

= Exception raised: TypeError

input `integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1
Test file number 218
Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)} (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{9}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeUnable to con
vert to r
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a + ia \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c+dx))^{3/2}(A+B \tan(c+dx))}{\sqrt{\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.1

Test file number 218

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeWarning, need to choose a branch for the root of a polynomial
with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeWarning, need to choose a branch for the root of a polynomial
with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{\frac{11}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{\frac{13}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(13/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c + dx))^{5/2} \left(\frac{3bB}{2a} + B \tan(c + dx)\right)}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(d*x+c))^(5/2)*(3/2*b*B/a+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeWarning, need to choose a branch for the root of a polynomial with par
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{3/2}(c + dx)(A + B \tan(c + dx))}{\sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeWarning, need
to choos
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)} \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{7}{2}}(c + dx) \sqrt{a + ia \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(7/2)/(a+I*a*tan(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeWarning, need to choos
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeWarning, need to choos
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeWarning, need to choos
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeWarning, need to choos
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\tan(c+dx)}(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))^4(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^4*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))^3(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^3*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))^2(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^2*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 206

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input

```
integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{a + ia \tan(c + dx)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 208

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + ia \tan(c + dx))^4} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^4,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,4]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c+dx) \sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^m*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \tan^3(c+dx) \sqrt{a+b \tan(c+dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^3*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm
m="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0, 19, 7]%%}+%%{8, [0, 17, 7]%%}+%%{28, [0, 15, 7]%%}+
%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \tan(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm=
"giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0, 14, 5]%%}+%%{6, [0, 12, 5]%%}+%%{15, [0, 10, 5]%%}+
%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[0,9,3]%%}+%%{4,[0,7,3]%%}+%%{6,[0,5,3]%%}+%%{4,[0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \cot(c + dx)\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c+dx)\sqrt{a+b\tan(c+dx)}(A+B\tan(c+dx))dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c+dx) \sqrt{a+b \tan(c+dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c+dx) (a + b \tan(c+dx))^{3/2} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \tan(c+dx)(a+b \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int (a+b \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \cot(c+dx)(a+b \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,13,4]%%}+%%{6, [0,11,4]%%}+%%{15, [0,9,4]%%}+%
%%{20, [0,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c+dx)(a + b \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^2*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorith
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \tan^2(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^2*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,29,11]%%}+%%{12, [0,27,11]%%}+%%{66, [0,25,11]%%
%%}+%%{2
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 332

Giac [F(-2)]

Exception generated.

$$\int \tan(c+dx)(a+b \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 334

Giac [F(-2)]

Exception generated.

$$\int \cot(c+dx)(a+b \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,18,6]%%}+%%{8, [0,16,6]%%}+%%{28, [0,14,6]%%}+%%{56, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \cot^2(c+dx)(a+b \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,17,7]%%}+%%{8, [0,15,7]%%}+%%{28, [0,13,7]%%}+%%{56, [0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \cot^3(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 337

Giac [F(-2)]

Exception generated.

$$\int \cot^4(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^4*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \cot^5(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^5*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [0,19,7]}%%+%%{8, [0,17,7]}%%+%%{28, [0,15,7]}%%+
%%{56, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))(a + b \tan(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,14,5]%%}+%%{6,[0,12,5]%%}+%%{15,[0,10,5]%%}+%%{20,[0`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int (-a + b \tan(c + dx))\sqrt{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a+b*tan(d*x+c))*(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,3]%%}+%%{4,[0,7,3]%%}+%%{6,[0,5,3]%%}+%%{4,[0,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+
%%{56, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 343

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,14,5]%%}+%%{6,[0,12,5]%%}+%%{15,[0,10,5]%%}+
%%{20,[0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c+dx)(A+B\tan(c+dx))}{\sqrt{a+b\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm=
"giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[0,9,3]%%}+%%{4,[0,7,3]%%}+%%{6,[0,5,3]%%}+%%{
4,[0,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{\sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 348

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 353

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [4,13,4]}%%+%%{6, [4,11,4]}%%+%%{15, [4,9,4]}%%+%%{20, [4,`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[3,17,7]%%}+%%{8,[3,15,7]%%}+%%{28,[3,13,7]%%}+
%%{56,[3
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c+dx)(A+B\tan(c+dx))}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorith
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{-1,[6,21,6]%%}+%%{-10,[6,19,6]%%}+%%{-45,[6,17,6]%%
%%}+%%{-
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 356

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [8,18,6]%%}+%%{8, [8,16,6]%%}+%%{28, [8,14,6]%%}+%%{56, [8`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[9,22,7]}%%}+%%{10,[9,20,7]}%%}+%%{45,[9,18,7]}%%}
+%%{120,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.1

Test file number 218

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[10,26,8]}%%}+%%{12,[10,24,8]}%%}+%%{66,[10,22,8]}%
%%}+%%{2
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(aB + bB \tan(c + dx))}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(aB + bB \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [4, 13, 4]%%}+%%{6, [4, 11, 4]%%}+%%{15, [4, 9, 4]%%}+%%{20, [4,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [3, 9, 3]%%}+%%{4, [3, 7, 3]%%}+%%{6, [3, 5, 3]%%}+%%{4, [3, 3, 3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{-a + b \tan(c + dx)}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a+b*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[6,14,5]}%%+%%{6,[6,12,5]}%%+%%{15,[6,10,5]}%%+%%{20,[6`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c))*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)(a+b \tan(c+dx))(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+b \tan(c+dx))(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))(A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^2(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(5/2)*(a+b*tan(d*x+c))^2*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 385

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)(a+b \tan(c+dx))^2(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))^2*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 386

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+b \tan(c+dx))^2(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))^2*(A+B*tan(d*x+c)),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 387

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^2 (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^2*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^2 (A + B \tan(c + dx))}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^2*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \tan^{\frac{3}{2}}(c+dx)(a+b \tan(c+dx))^3(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(a+b*tan(d*x+c))^3*(A+B*tan(d*x+c)),x, algorithm
m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\tan(c+dx)}(a+b \tan(c+dx))^3(A+B \tan(c+dx)) dx$$

= Exception raised: TypeError

input `integrate(tan(d*x+c)^(1/2)*(a+b*tan(d*x+c))^3*(A+B*tan(d*x+c)),x, algorithm
m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^3 (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^3*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm=
"giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 399

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(A+B\tan(c+dx))}{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + b \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^2,x, algorithm
m="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c + dx)(aB + bB \tan(c + dx))}{a + b \tan(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(d*x+c)^(5/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(aB+bB\tan(c+dx))}{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(aB+bB\tan(c+dx))}{a+b\tan(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{5}{2}}(c+dx)(aB+bB\tan(c+dx))}{(a+b\tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(5/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(aB+bB\tan(c+dx))}{(a+b\tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(3/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(aB + bB \tan(c+dx))}{(a + b \tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)^(1/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^2,x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c+dx)}{\sqrt{\tan(c+dx)}(a + b \tan(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((B*a+b*B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^2,x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*a+b*B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^2,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{3}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{5}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{7}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + b \tan(c + dx)}(A + B \tan(c + dx))}{\tan^{\frac{9}{2}}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 436

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 437

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 438

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 439

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, alg
orithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 441

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\sqrt{\tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 444

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{7/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(7/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 447

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{9/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(9/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{11/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(11/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 449

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\tan^{13/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/tan(d*x+c)^(13/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} \left(\frac{3bB}{2a} + B \tan(c + dx)\right)}{\tan^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c))^(5/2)*(3/2*b*B/a+B*tan(d*x+c))/tan(d*x+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)} \sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx) \sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{5}{2}}(c + dx) \sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(1/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{7}{2}}(c + dx) \sqrt{a + b \tan(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)^(7/2)/(a+b*tan(d*x+c))^(1/2),x, algorith="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 460

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{3/2}(c + dx)(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 461

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 466

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{5/2}(c + dx)(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/tan(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 468

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^{\frac{3}{2}}(c+dx)(aB+bB\tan(c+dx))}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(d*x+c)^(3/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 469

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\tan(c+dx)}(aB+bB\tan(c+dx))}{(a+b\tan(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(tan(d*x+c)^(1/2)*(B*a+b*B*tan(d*x+c))/(a+b*tan(d*x+c))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 470

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*a+b*B*tan(d*x+c))/tan(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 471

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\tan^{3/2}(c + dx)(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*a+b*B*tan(d*x+c))/tan(d*x+c)^(3/2)/(a+b*tan(d*x+c))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 472

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + b \tan(c + dx))^4(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+b*tan(d*x+c))^4*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,5]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 479

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + b \tan(c + dx))^3(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+b*tan(d*x+c))^3*(A+B*tan(d*x+c)),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,1,0]%%} / %%{1,[0,0,4]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 480

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + b \tan(c + dx))^2(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input

```
integrate(tan(d*x+c)^m*(a+b*tan(d*x+c))^2*(A+B*tan(d*x+c)),x, algorithm="g
iac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0
,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 481

Giac [F(-2)]

Exception generated.

$$\int \tan^m(c + dx)(a + b \tan(c + dx))(A + B \tan(c + dx)) dx$$

= Exception raised: RuntimeError

input `integrate(tan(d*x+c)^m*(a+b*tan(d*x+c))*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 482

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c+dx)(A+B\tan(c+dx))}{a+b\tan(c+dx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+b*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 483

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 484

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,3]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 485

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c+dx)(A+B\tan(c+dx))}{(a+b\tan(c+dx))^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate(tan(d*x+c)^m*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,4]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 486

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c+dx)\sqrt{a+ia\tan(c+dx)}(A+B\tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 540

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c+dx) \sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 541

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c+dx) \sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 542

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)} \sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx)) dx$$

= Exception raised: TypeError

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 543

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a+ia \tan(c+dx)} (A+B \tan(c+dx))}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(1/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 544

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(9/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 545

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 546

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 547

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 548

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}(a + ia \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 549

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c+dx))^{3/2}(A+B \tan(c+dx))}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 550

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{11}{2}}(c+dx)(a + ia \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(11/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, a
lgorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(9/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 554

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 555

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}(a + ia \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 556

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(c+dx))^{5/2}(A+B \tan(c+dx))}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 557

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{5}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(5/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 558

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 559

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(1/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 560

Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\tan(c+dx)}{\sqrt{\cot(c+dx)}\sqrt{a+ia\tan(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(1/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 561

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 564

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{3/2}(c + dx)(a + ia \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 565

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c+dx)(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 566

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\cot(c+dx)}(A+B\tan(c+dx))}{(a+ia\tan(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(A+B*tan(d*x+c))/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 567

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)}(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 568

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{3/2}(c + dx)(a + ia \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(3/2)/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 569

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{\frac{5}{2}}(c + dx)(a + ia \tan(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+I*a*tan(d*x+c))^(5/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 570

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{11}{2}}(c + dx)(a + b \tan(c + dx))^{\frac{3}{2}}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(11/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 623

Giac [**F(-2)**]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c+dx)(a + b \tan(c+dx))^{3/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(9/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 624

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.1

Test file number 218

Integral number in file 625

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{4, [0,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 626

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{
4, [0,3,3]`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c + dx)}(a + b \tan(c + dx))^{3/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c)),x, algo
rithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,3]}+%%{4,[0,7,3]}+%%{6,[0,5,3]}+%%{4,[0,3,3]}
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 628

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\sqrt{\cot(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,9,3]}+%%{4,[0,7,3]}+%%{6,[0,5,3]}+%%{4,[0,3,3]}
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 629

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{3/2} (A + B \tan(c + dx))}{\cot^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(3/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,9,3]%%}+%%{4, [0,7,3]%%}+%%{6, [0,5,3]%%}+%%{
4, [0,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 630

Giac [F(-2)]

Exception generated.

$$\int \cot^{13/2}(c + dx) (a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(13/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 631

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{11}{2}}(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(11/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[1, [0,14,5]%%]+%%{6, [0,12,5]%%]+%%{15, [0,10,5]%%}+%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 632

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{9}{2}}(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(9/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 633

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{7}{2}}(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(7/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 634

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{5}{2}}(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(5/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 635

Giac [F(-2)]

Exception generated.

$$\int \cot^{\frac{3}{2}}(c + dx)(a + b \tan(c + dx))^{5/2}(A + B \tan(c + dx)) dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^(3/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 636

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\cot(c+dx)}(a + b \tan(c+dx))^{5/2}(A+B \tan(c+dx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(d*x+c)^(1/2)*(a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c)),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,14,5]}+%%{6,[0,12,5]}+%%{15,[0,10,5]}+
%%{20,[0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 637

Giac [F(-2)]

Exception generated.

$$\int \frac{(a+b \tan(c+dx))^{5/2}(A+B \tan(c+dx))}{\sqrt{\cot(c+dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 638

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(c + dx))^{5/2} (A + B \tan(c + dx))}{\cot^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(d*x+c))^(5/2)*(A+B*tan(d*x+c))/cot(d*x+c)^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 639

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)(a + b \tan(c + dx))^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]}`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 649

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{\frac{3}{2}}(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(d*x+c)^(3/2)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+%%{20, [6,8,5]%%}+%%{15, [6,6,5]}`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 652

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\cot(c + dx)(a + b \tan(c + dx))^{5/2}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+
%%{20, [6
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 654

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\cot^{5/2}(c + dx)(a + b \tan(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(d*x+c))/cot(d*x+c)^(5/2)/(a+b*tan(d*x+c))^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+
%%{20, [6
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 656

Giac [F(-2)]

Exception generated.

$$\int \frac{aB + bB \tan(c + dx)}{\sqrt{\cot(c + dx)}(a + b \tan(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((B*a+b*B*tan(d*x+c))/cot(d*x+c)^(1/2)/(a+b*tan(d*x+c))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [3,9,3]}+%%{4, [3,7,3]}+%%{6, [3,5,3]}+%%{
4, [3,3,3]}
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 658

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(A + B \tan(e + fx))(c - ic \tan(e + fx))^{7/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 740

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(A + B \tan(e + fx))(c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 741

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(A + B \tan(e + fx))(c - ic \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2),x,
algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 742

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))(A + B \tan(e + fx))\sqrt{c - ic \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2),x,
algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 743

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 744

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 745

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 746

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))(A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 747

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (A + B \tan(e + fx)) (c - ic \tan(e + fx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 748

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (A + B \tan(e + fx)) (c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 749

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (A + B \tan(e + fx)) (c - ic \tan(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 750

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^2 (A + B \tan(e + fx)) \sqrt{c - ic \tan(e + fx)} dx$$

= Exception raised: TypeError

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 751

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{\sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 752

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 753

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ict \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 754

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^2 (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^2*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 755

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (A + B \tan(e + fx)) (c - ic \tan(e + fx))^{7/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```


input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 756

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (A + B \tan(e + fx)) (c - ic \tan(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 757

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (A + B \tan(e + fx)) (c - I*c*\tan(f*x+e))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 758

Giac [F(-2)]

Exception generated.

$$\int (a + ia \tan(e + fx))^3 (A + B \tan(e + fx)) \sqrt{c - ic \tan(e + fx)} dx$$

= Exception raised: TypeError

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 759

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 760

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 761

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 762

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^3 (A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^3*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 763

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{7/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e)),x,
algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 764

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{5/2}}{a + ia \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e)),x,
algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 765

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{3/2}}{a + i a \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e)),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 766

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))\sqrt{c - i c \tan(e + fx)}}{a + i a \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e)),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 767

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx)) \sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 768

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 769

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))(c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/2),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 770

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^2,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```


input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 771

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{7/2}}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^2,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 772

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{5/2}}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^2,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 773

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{3/2}}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^2,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 774

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i c \tan(e + fx)}}{(a + i a \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^2,x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 775

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + i a \tan(e + fx))^2 \sqrt{c - i c \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 776

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 777

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^2 (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^2/(c-I*c*tan(f*x+e))^(5/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 778

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{9/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 779

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{7/2}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument Ty`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 780

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{5/2}}{(a + i a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^3,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 781

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{3/2}}{(a + i a \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^3,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i \tan(e + fx)}}{(a + ia \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^3,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Ar
gument Ty
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 783

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 \sqrt{c - i \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(1/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 784

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(3/2),x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 785

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx)}{(a + ia \tan(e + fx))^3 (c - ic \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))/(a+I*a*tan(f*x+e))^3/(c-I*c*tan(f*x+e))^(5/2),x
, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 786

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 791

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 792

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 793

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{a + ia \tan(e + fx)}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 794

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}(A + B \tan(e + fx))}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 799

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 800

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 801

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 802

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(9/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 803

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{3/2}(A + B \tan(e + fx))}{(c - ictan(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(11
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 804

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{\sqrt{c - ictan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 809

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 810

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 811

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 812

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(9/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 813

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(11
/2),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 814

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{5/2} (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(13
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 815

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{\sqrt{c - ic \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 821

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 822

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 823

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(7/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 824

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ictan(e + fx))^{9/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(9/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 825

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{11/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(11
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 826

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{13/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(13
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 827

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{15/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(15
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 828

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + ia \tan(e + fx))^{7/2} (A + B \tan(e + fx))}{(c - ic \tan(e + fx))^{17/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+I*a*tan(f*x+e))^(7/2)*(A+B*tan(f*x+e))/(c-I*c*tan(f*x+e))^(17
/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 829

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{5/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 830

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{3/2}}{\sqrt{a + ia \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 831

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i c \tan(e + fx)}}{\sqrt{a + i a \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(1/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 832

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{7/2}}{(a + i a \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 836

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{5/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 837

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - ic \tan(e + fx))^{3/2}}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(3/
2),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 838

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx)) \sqrt{c - i c \tan(e + fx)}}{(a + i a \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(3/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 839

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{9/2}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(9/2)/(a+I*a*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 843

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{7/2}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(7/2)/(a+I*a*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 844

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{5/2}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(5/2)/(a+I*a*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 845

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c - i c \tan(e + fx))^{3/2}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(3/2)/(a+I*a*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 846

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))\sqrt{c - i c \tan(e + fx)}}{(a + i a \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c-I*c*tan(f*x+e))^(1/2)/(a+I*a*tan(f*x+e))^(5/
2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 847

Giac [F(-2)]

Exception generated.

$$\int \frac{(A + B \tan(e + fx))(c + d \tan(e + fx))}{(a + ia \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e))*(c+d*tan(f*x+e))/(a+I*a*tan(f*x+e))^(3/2),x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 855

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^m(c + dx) (A + B \tan(c + dx) + C \tan^2(c + dx))}{\sqrt{b \tan(c + dx)}} dx$$

= Exception raised: TypeError

input

```
integrate(tan(d*x+c)^m*(A+B*tan(d*x+c)+C*tan(d*x+c)^2)/(b*tan(d*x+c))^(1/2
),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[3,9]}+%%{4,[3,7]}+%%{6,[3,5]}+%%{4,[3,3]}+%%
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^3 \sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: TypeError

input

```
integrate((a+b*tan(f*x+e))^3*(c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,29,11]}+%%{12,[0,27,11]}+%%{66,[0,25,11]}+%%{2}
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: TypeError

input `integrate((a+b*tan(f*x+e))^2*(c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: TypeError

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: TypeError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx$$

= Exception raised: TypeError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx$$

= Exception raised: TypeError

input

```
integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(
f*x+e))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1, [0,14,6]%%}+%%{6, [0,12,6]%%}+%%{15, [0,10,6]%%}+
%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + d \tan(e + fx)}(A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: TypeError

input `integrate((c+d*tan(f*x+e))^(1/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,8]%%}+%%{8, [0,17,8]%%}+%%{28, [0,15,8]%%}+%%{56, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^3 (c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))^3*(c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,34,13]%%}+%%{14, [0,32,13]%%}+%%{91, [0,30,13]%%}+%%{3

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(f*x+e))^2*(c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [0,29,11]}%%}+%%{12, [0,27,11]}%%}+%%{66, [0,25,11]}%
%}+%%{2
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,24,9]}%%+%%{10,[0,22,9]}%%+%%{45,[0,20,9]}%%+
+%%{120,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int (c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,19,7]}%%+%%{8,[0,17,7]}%%+%%{28,[0,15,7]}%%+
+%%{56,[0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1, [0,19,8]%%}+%%{-8, [0,17,8]%%}+%%{-28, [0,15,8]%%}+%%{-5`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{3/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(3/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,19,8]%%}+%%{8, [0,17,8]%%}+%%{28, [0,15,8]%%}+%%{56, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(f*x+e))^2*(c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,34,13]%%}+%%{14, [0,32,13]%%}+%%{91, [0,30,13]%%}+%%{3
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e))*(c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1, [0,29,11]%%}}+%%{12, [0,27,11]%%}}+%%{66, [0,25,11]%%}}+%%{2`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int (c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,24,9]}+%%{10,[0,22,9]}+%%{45,[0,20,9]}+
+%%{120,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{a + b \tan(e + fx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(
f*x+e)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [0,22,10]%%}+%%{10, [0,20,10]%%}+%%{45, [0,18,10]%%
%%}+%%{1

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^{5/2} (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*tan(f*x+e))^(5/2)*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{-1, [0,21,6]%%}+%%{-10, [0,19,6]%%}+%%{-45, [0,17,6]%%
%%}+%%{-

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3 (A + B \tan(e + fx) + C \tan^2(e + fx))}{\sqrt{c + d \tan(e + fx)}} dx$$

= Exception raised: TypeError

input

```
integrate((a+b*tan(f*x+e))^3*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,24,9]%%}+%%{10, [0,22,9]%%}+%%{45, [0,20,9]%%}+%%{120,
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2 (A + B \tan(e + fx) + C \tan^2(e + fx))}{\sqrt{c + d \tan(e + fx)}} dx$$

= Exception raised: TypeError

input

```
integrate((a+b*tan(f*x+e))^2*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,19,7]%%}+%%{8, [0,17,7]%%}+%%{28, [0,15,7]%%}+%%{56, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))(A + B \tan(e + fx) + C \tan^2(e + fx))}{\sqrt{c + d \tan(e + fx)}} dx$$

= Exception raised: TypeError

input

```
integrate((a+b*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,14,5]%%}+%%{6, [0,12,5]%%}+%%{15, [0,10,5]%%}+%%{20, [0
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{\sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,9,3]}+%%{4,[0,7,3]}+%%{6,[0,5,3]}+%%{
4,[0,3,3]
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx)) \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e)
)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 \sqrt{c + d \tan(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [0,14,6]%%}+%%{6, [0,12,6]%%}+%%{15, [0,10,6]%%}+%%{20, [0

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,9,3]%%}+%%{4, [3,7,3]%%}+%%{6, [3,5,3]%%}+%%{4, [3,3,3]

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2(c + d \tan(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [3,19,8]%%}+%%{8, [3,17,8]%%}+%%{28, [3,15,8]%%}+%%{56, [3`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))(A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e)
)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%}{1, [6,14,5]%%}+%%{6, [6,12,5]%%}+%%{15, [6,10,5]%%}+
%%{20, [6
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(c+d*tan(f*x+e))^(5/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[6,14,5]}%%+%%{6,[6,12,5]}%%+%%{15,[6,10,5]}%%+
%%{20,[6
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e)
)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)^2)/(a+b*tan(f*x+e))^2/(c+d*tan(f*x+e))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1, [6,22,10]%%}+%%{-10, [6,20,10]%%}+%%{-45, [6,18,10]%%}+%%
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(csc(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionDegree mismatch
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^3*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^5*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^5*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(e + fx)}{(a + b \tan^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)/(a+b*tan(f*x+e)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \tan^5(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^5*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 293

Giac [F(-2)]

Exception generated.

$$\int \tan^3(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^3*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 294

Giac [F(-2)]

Exception generated.

$$\int \tan(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionDegree mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 297

Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^5*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int \tan^6(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^6*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \tan^4(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \tan^2(e + fx) \sqrt{a + b \tan^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2*(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int \tan^5(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^5*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 306

Giac [F(-2)]

Exception generated.

$$\int \tan^3(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^3*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int \tan(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^5*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \tan^6(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^6*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \tan^4(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \tan^2(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^2*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \cot^2(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^2*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int \cot^4(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^4*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \cot^6(e + fx) (a + b \tan^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^6*(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int (a + b \tan^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tan(d*x+c)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(e + fx)}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^5(e + fx)}{\sqrt{a + b \tan^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^5/(a+b*tan(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.Non regula
r value [

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^4(e + fx)}{(a + b \tan^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(f*x+e)^4/(a+b*tan(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.Non regula
r value [

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \cot(x) \sqrt{a + b \tan^4(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)*(a+b*tan(x)^4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionError: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \cot(x) (a + b \tan^4(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)*(a+b*tan(x)^4)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionError: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 395

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(x)}{\sqrt{a + b \tan^4(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(x)^3/(a+b*tan(x)^4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionError:
Bad Argum`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{\sqrt{a + b \tan^4(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)/(a+b*tan(x)^4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)/(a+b*tan(x)^4)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(x)}{(a + b \tan^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(x)/(a+b*tan(x)^4)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/220_4.3.7

Test file number 220

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \tan^3(d + ex) \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)^3*(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \tan^2(d + ex) \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)^2*(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int \tan(d + ex) \sqrt{a + b \tan(d + ex) + c \tan^2(d + ex)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(tan(e*x+d)*(a+b*tan(e*x+d)+c*tan(e*x+d)^2)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/221_4.3.9

Test file number 221

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\tan^{\frac{3}{2}}(a + bx)} - \frac{4x}{b\sqrt{\tan(a + bx)}} + x^2 \sqrt{\tan(a + bx)} \right) dx$$

= Exception raised: RuntimeError

input

```
integrate(x^2/tan(b*x+a)^(3/2)-4*x/b/tan(b*x+a)^(1/2)+x^2*tan(b*x+a)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \left(\frac{x^2}{\sqrt{\tan(a+bx^2)}} + \frac{\sqrt{\tan(a+bx^2)}}{b} + x^2 \tan^{\frac{3}{2}}(a+bx^2) \right) dx$$

= Exception raised: TypeError

input `integrate(x^2/tan(b*x^2+a)^(1/2)+tan(b*x^2+a)^(1/2)/b+x^2*tan(b*x^2+a)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,2,1,0]%%} / %%{1,[0,0,0,1]%%} Error: Bad Argument
Value

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/222_4.3.10

Test file number 222

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \cot^4(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*cot(x)^4)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/224_4.4.0

Test file number 224

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \cot^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*cot(x)^4)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/224_4.4.0

Test file number 224

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int (a + b \cot^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*cot(d*x+c)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int (a + b \cot^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*cot(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*cot(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/228_4.4.7

Test file number 228

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^5(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(e*x+d)^5/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(d + ex)}{\sqrt{a + b \cot(d + ex) + c \cot^2(d + ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{\sqrt{a + b \cot(d + ex) + c \cot^2(d + ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d+ex)}{\sqrt{a+b\cot(d+ex)+c\cot^2(d+ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^7(d+ex)}{(a+b\cot(d+ex)+c\cot^2(d+ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(e*x+d)^7/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^5(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(e*x+d)^5/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cot(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d + ex)}{(a + b \cot(d + ex) + c \cot^2(d + ex))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)^3/(a+b*cot(e*x+d)+c*cot(e*x+d)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(d + ex)}{\sqrt{a + b \cot^2(d + ex) + c \cot^4(d + ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan^3(d+ex)}{\sqrt{a+b\cot^2(d+ex)+c\cot^4(d+ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(e*x+d)^3/(a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a+b\cot^2(d+ex)+c\cot^4(d+ex)} \tan(d+ex) dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(1/2)*tan(e*x+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \cot^2(d + ex) + c \cot^4(d + ex)} \tan^3(d + ex) dx$$

= Exception raised: AttributeError

input

```
integrate((a+b*cot(e*x+d)^2+c*cot(e*x+d)^4)^(1/2)*tan(e*x+d)^3,x, algorithm
m="giac")
```

output

```
Exception raised: AttributeError >> type
```

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/229_4.4.9

Test file number 229

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a*sec(x)^4)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/231_4.5.0

Test file number 231

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \sec^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*sec(x)^4)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/231_4.5.0

Test file number 231

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \cos^2(c + dx)(a + a \sec(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^2*(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[469762048,0]:[1,0,-2]%%},[14]%%},0]:[1,0,%%{1,[1]%%}}`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \cos^4(c + dx)(a + a \sec(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(d*x+c)^4*(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[-2309237210123256509497344,0]:[1,0,-2]%%},[35]%%},0):[

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \sec^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(3/2)*(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[-469762048,0]:[1,0,-2]%%},[14]%%},0):[1,0,%%{-1,[1]%%}]%%},[0,1]%%} / %%{

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(5/2)*(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[
%%{%%{[2309237210123256509497344,0]:[1,0,-2]%%},[35]%%},0]:[1,0,%%{-1,[
1]%%}]%%},[

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: AttributeError}$$

input `integrate(sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: AttributeError >> type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c + dx)}{(a + a \sec(c + dx))^{\frac{3}{2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(sec(d*x+c)^(3/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\sec(c + dx)}}{(a + a \sec(c + dx))^{\frac{3}{2}}} dx = \text{Exception raised: AttributeError}$$

input `integrate(sec(d*x+c)^(1/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c+dx)}{\sqrt{1+\sec(c+dx)}} dx = \text{Exception raised: AttributeError}$$

input `integrate(sec(d*x+c)^(3/2)/(1+sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^n(e + fx)}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)^n/(a+a*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%{-1,[0,1,0]} / %{-2,[0,0,1]} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 292

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^n(e + fx)}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)^n/(a+a*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%{1,[0,1,2,0]}+%{-3,[0,1,0,0]} / %{-4,[0,0,0,2]} Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 293

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^{3/2}}{\cos^{3/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(d*x+c))^(3/2)/cos(d*x+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[-469762048,0]:[1,0,-2]%%},[14]%%},0]:[1,0,%%{-1,[1]%%

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(c + dx))^{5/2}}{\cos^{5/2}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(d*x+c))^(5/2)/cos(d*x+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[2309237210123256509497344,0]:[1,0,-2]%%},[35]%%},0]:[1

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{7}{2}}(c+dx)(a+a\sec(c+dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(7/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos^{\frac{9}{2}}(c+dx)(a+a\sec(c+dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/cos(d*x+c)^(9/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \cos(e + fx))^n}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((d*cos(f*x+e))^n/(a+a*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%{-1,[0,1,0]} / %{-2,[0,0,1]} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 444

Giac [F(-2)]

Exception generated.

$$\int \frac{(d \cos(e + fx))^n}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*cos(f*x+e))^n/(a+a*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%{1,[0,1,2,0]}+%{-3,[0,1,0,0]} / %{-4,[0,0,0,2]} Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(c + dx))^{5/2}}{\sec^{4/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sec(d*x+c))^(5/2)/sec(d*x+c)^(4/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:int() Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 744

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec(c + dx))^{5/2}}{\sec^{7/3}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sec(d*x+c))^(5/2)/sec(d*x+c)^(7/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:int() Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/232_4.5.1.2

Test file number 232

Integral number in file 746

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))(e \sin(c + dx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+a*sec(d*x+c))*(e*sin(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(c + dx))^2 (e \sin(c + dx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+a*sec(d*x+c))^2*(e*sin(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a poly
nomial with parameters. This might be wrong.The choice was done assuming 0
=[0,0]ext_re`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sin(c + dx))^m}{a + a \sec(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sin(d*x+c))^m/(a+a*sec(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%{-1,[0,1,0]} / %{-2,[0,0,1]} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sin(c + dx))^m}{(a + a \sec(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sin(d*x+c))^m/(a+a*sec(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%{1,[0,1,2,0]}+%{-3,[0,1,0,0]} / %{4,[0,0,0,2]} Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sin(c + dx))^m}{(a + a \sec(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((e*sin(d*x+c))^m/(a+a*sec(d*x+c))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0,1,4,0]%%}+%%{4, [0,1,2,0]%%}+%%{-7, [0,1,0,0]%%}/ %%{8, [

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \sin(c + dx))^m}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*sin(d*x+c))^m/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{poly1[1,0]:[1,0,-2]%%}, [5,12]%%}+%%{%%{[6,0]:[1,0,-2]%%}, [5,10]%%}+%%{%%{[15,0]

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/233_4.5.1.3

Test file number 233

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \tan(c + dx))^m}{a + a \sec(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((e*tan(d*x+c))^m/(a+a*sec(d*x+c)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%{-1,[0,1,0]} / %{-2,[0,0,1]} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \tan(c + dx))^m}{(a + a \sec(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((e*tan(d*x+c))^m/(a+a*sec(d*x+c))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%{1,[0,1,2,0]}+%{-3,[0,1,0,0]} / %{-4,[0,0,0,2]} Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \frac{(e \tan(c + dx))^m}{(a + a \sec(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((e*tan(d*x+c))^m/(a+a*sec(d*x+c))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1, [0,1,4,0]%%}+%%{4, [0,1,2,0]%%}+%%{-7, [0,1,0,0]%%}
/ %%{8, [

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{\sqrt{a + b \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+b*sec(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)/(a+b*sec(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)}{(a + b \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(d*x+c)^3/(a+b*sec(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{32, [2,6]%%}+%%{-32, [1,7]%%}, [6,1]%%}+%%{%%{64, [2,6]%%}

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/234_4.5.1.4

Test file number 234

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c - c \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e))^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^5}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^5/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^4}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^4/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^3}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^3/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^2}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^2/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{c - c \sec(e + fx)}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2}(c - c \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sec(e + fx)} (c - c \sec(e + fx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)*(c-c*sec(f*x+e))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sec(e + fx)} (c - c \sec(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)*(c-c*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sec(e + fx)} (c - c \sec(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)*(c-c*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \sec(e + fx)} \sqrt{c - c \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(1/2)*(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(3/2)*(c-c*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{3/2} (c - c \sec(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(3/2)*(c-c*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{3/2} \sqrt{c - c \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(3/2)*(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{3/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)*(c-c*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{5/2} (c - c \sec(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)*(c-c*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int (a + a \sec(e + fx))^{5/2} \sqrt{c - c \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)*(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{(c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{3/2}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(3/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - c \sec(e + fx)}}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(1/2)/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{7/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c*sec(f*x+e))^(7/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{3/2}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(3/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - c \sec(e + fx)}}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(1/2)/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{5/2}}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^{3/2}}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(3/2)/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c - c \sec(e + fx)}}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^(1/2)/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^n}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^n/(a+a*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{2,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{(c - c \sec(e + fx))^n}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c-c*sec(f*x+e))^n/(a+a*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1, [0,1,2,0]%%}+%%{-3, [0,1,0,0]%%} / %%{4, [0,0,0,2]%%}
Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{3/2}}{c + d \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + a \sec(e + fx))^{5/2}}{c + d \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{\sqrt{a + a \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{(a + a \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2}(c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{3/2} (c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(3/2)/(c+d*sec(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^3}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^3/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + d \sec(e + fx))^2}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))^2/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{c + d \sec(e + fx)}{(a + a \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c+d*sec(f*x+e))/(a+a*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c + d \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \sec(e + fx))^{5/2} (c + d \sec(e + fx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sec(f*x+e))^(5/2)/(c+d*sec(f*x+e))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{(c(d \sec(e + fx))^p)^n}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c*(d*sec(f*x+e))^p)^n/(a+a*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{2,[0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{(c(d \sec(e + fx))^p)^n}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*(d*sec(f*x+e))^p)^n/(a+a*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [0, 1, 2, 0]%%}+%%{-3, [0, 1, 0, 0]%%} / %%{4, [0, 0, 0, 2]%%}
Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/235_4.5.2.1

Test file number 235

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx) \sqrt{a + a \sec(e + fx)}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e))^(1/2),x, algo
rithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^{3/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^{3/2}}{(c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(3/2)/(c-c*sec(f*x+e))^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^{5/2}}{\sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(1/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^{5/2}}{(c - c \sec(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(3/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)(a + a \sec(e + fx))^{5/2}}{(c - c \sec(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)*(a+a*sec(f*x+e))^(5/2)/(c-c*sec(f*x+e))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^p (c - c \sec(e + fx))}{a + a \sec(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate((g*sec(f*x+e))^p*(c-c*sec(f*x+e))/(a+a*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%}+%%{1,[0,1,0,0]%%} / %%{2,[0,0,0,1]%%} Error: Ba`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^p (c - c \sec(e + fx))}{(a + a \sec(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((g*sec(f*x+e))^p*(c-c*sec(f*x+e))/(a+a*sec(f*x+e))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-1, [0,1,4,0]%%}+%%{1, [0,1,0,0]%%} / %%{4, [0,0,0,2]%%} Error: B

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(e + fx)}{\sqrt{a + a \sec(e + fx)} \sqrt{c - c \sec(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)^2/(a+a*sec(f*x+e))^(1/2)/(c-c*sec(f*x+e))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(e + fx)}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(e + fx)}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(f*x+e)^2/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{3/2}}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*sec(f*x+e))^(3/2)/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x,
algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{(g \sec(e + fx))^{5/2}}{\sqrt{a + a \sec(e + fx)}(c + d \sec(e + fx))} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*sec(f*x+e))^(5/2)/(a+a*sec(f*x+e))^(1/2)/(c+d*sec(f*x+e)),x,
algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/236_4.5.2.3

Test file number 236

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{7/2}(c + dx)(A + B \sec(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(7/2)*(A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[23574053482485268906770432,0]:[1,0,-2]%%},[16]%%},0]:[1,0,%%{-1,[1]%%}]%%},

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c+dx)(A+B\sec(c+dx))}{(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(3/2)*(A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\sec(c+dx)}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{\frac{3}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c))/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c+dx)(A+B\sec(c+dx))}{(a+a\sec(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(3/2)*(A+B*sec(d*x+c))/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [0,0] was discarded and`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{A+B\sec(c+dx)}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c))/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx)}{\cos^{\frac{7}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c))/cos(d*x+c)^(7/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[%%{%%{[23574053482485268906770432,0]:[1,0,-2]%%},[16]%%},0]:[`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/237_4.5.3.1

Test file number 237

Integral number in file 554

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c+dx)(A+C\sec^2(c+dx))}{(a+a\sec(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(sec(d*x+c)^(3/2)*(A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{A+C\sec^2(c+dx)}{\sec^{\frac{5}{2}}(c+dx)(a+a\sec(c+dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 288

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{5}{2}}(c+dx)(A+C\sec^2(c+dx))}{(a+a\sec(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(sec(d*x+c)^(5/2)*(A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Error index.cc index_gcd Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c+dx)(A+C\sec^2(c+dx))}{(a+a\sec(c+dx))^{\frac{5}{2}}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(sec(d*x+c)^(3/2)*(A+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [0,0] was discarded and
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 290

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((A+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 294

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(c + dx) (B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(cos(d*x+c)*(B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sqrt{a + a \sec(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 514

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 523

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 531

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^5(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(5/2)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{%%[%%{%%[23574053482485268906770432,0]:[1,0,-2]%%},[16]%%},0]:[1,0,%%{-1,[1]%%}]%%},`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 613

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(3/2)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 614

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 618

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{\frac{3}{2}}(c + dx) (A + B \sec(c + dx) + C \sec^2(c + dx))}{(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(sec(d*x+c)^(3/2)*(A+B*sec(d*x+c)+C*sec(d*x+c)^2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [0,0] was discarded and`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 620

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\sec^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/sec(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 624

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\cos^{\frac{3}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/cos(d*x+c)^(3/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1165

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionUnable to divide`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1166

Giac [F(-2)]

Exception generated.

$$\int \frac{A + C \sec^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{\frac{5}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1172

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(c + dx) + C \sec^2(c + dx)}{\cos^{\frac{5}{2}}(c + dx)(a + a \sec(c + dx))^{\frac{3}{2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(d*x+c)+C*sec(d*x+c)^2)/cos(d*x+c)^(5/2)/(a+a*sec(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionDegree mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/239_4.5.4.2

Test file number 239

Integral number in file 1285

Giac [F(-2)]

Exception generated.

$$\int \csc(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \csc^3(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^3*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{16384, [5,4]%%},0]: [1,0,%%{-1, [1,0]%%}+%%{-1, [0
,1]%%}]%

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \csc^5(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^5*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{262144, [6,6]%%}, [12]%%}+%%{%%{1572864, [6,6]%%
,0}: [1,0

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^3*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \cot^5(e + fx) (a + b \sec^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)^5*(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 394

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{(a + b \sec^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a+b*sec(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot(e + fx)}{(a + b \sec^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cot(f*x+e)/(a+b*sec(f*x+e)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \cot(e + fx) (a + b \sec^2(e + fx))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(f*x+e)*(a+b*sec(f*x+e)^2)^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%}+%%{1,[0,1,0,0]%%} / %%{2,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int \cot^3(e + fx) (a + b \sec^2(e + fx))^p dx = \text{Exception raised: RuntimeError}$$

input `integrate(cot(f*x+e)^3*(a+b*sec(f*x+e)^2)^p,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%}+%%{2,[0,1,0,0]%%} / %%{2,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int (a + b \sec^2(e + fx))^p \tan^4(e + fx) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sec(f*x+e)^2)^p*tan(f*x+e)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0]%%}+%%{-1,[0,1,0,0]%%} / %%{1,[0,0,0,1]%%} Error: B`

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 447

Giac [F(-2)]

Exception generated.

$$\int (a + b \sec^2(e + fx))^p \tan^2(e + fx) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sec(f*x+e)^2)^p*tan(f*x+e)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0]%%} / %%{1,[0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.5_Secant/240_4.5.4.7

Test file number 240

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \csc^4(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*csc(x)^4)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/243_4.6.0

Test file number 243

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \csc^4(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*csc(x)^4)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/243_4.6.0

Test file number 243

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a \csc^4(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*csc(x)^4)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/243_4.6.0

Test file number 243

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\csc(e + fx)} \sqrt{a + a \csc(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(f*x+e)^(1/2)*(a+a*csc(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \csc^{\frac{4}{3}}(c + dx) \sqrt{a + a \csc(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(d*x+c)^(4/3)*(a+a*csc(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{2,[0,1,1,1,0]%%} / %%{1,[0,0,0,0,1]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \csc^{\frac{5}{3}}(c + dx) \sqrt{a + a \csc(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csc(d*x+c)^(5/3)*(a+a*csc(d*x+c))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{2,[0,2,1,2,0]%%} / %%{1,[0,0,0,0,1]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/244_4.6.1.2

Test file number 244

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*csc(d*x+c)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*csc(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \csc^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*csc(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \csc^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csc(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \csc^2(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csc(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (-1 - \csc^2(x))^{3/2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-1-csc(x)^2)^(3/2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: Recursive assumption sageVARx>=(-2*pi/2) ignoredRecursive assumption sageVARx<=(2*pi/2) ignoredi*2*(-1/16*sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1)*sign(sin(sageVA

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \sqrt{-1 - \csc^2(x)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-1-csc(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: i/2*(2*(2*atan(1/2*(-tan(1/2*sageVARx)^2+sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1))-1/2*ln(-tan(1/2*sageVARx)^2+sqrt(tan(1/2*sageVARx)^4+6*tan(1/2*sageVARx)^2+1

input file name test_cases/rubi_tests/4_Trig_functions/4.6_Cosecant/249_4.6.7

Test file number 249

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(x)}{\sqrt{a + a \cos(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(x))/(a+a*cos(x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(x)}{(a + a \cos(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(x))/(a+a*cos(x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{A + B \sec(x)}{(a + a \cos(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*sec(x))/(a+a*cos(x))^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int \left(\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm="
giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate(((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{5/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \left(-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex) \right)^{3/2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)} dx = \text{Exception raised: TypeError}$$

input `integrate((-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-\sqrt{b^2 + c^2} + b \cos(d + ex) + c \sin(d + ex)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(-b^2+c^2)^(1/2)+b*cos(e*x+d)+c*sin(e*x+d))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(100x) + \sin(101x)}{\cos(100x) - \cos(101x)} dx = \text{Exception raised: TypeError}$$

input `integrate((sin(100*x)+sin(101*x))/(cos(100*x)-cos(101*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{540174450688*i,[1,0,16]%%}+%%{1080348901376*i,[1,0,14]%%}+%%{94

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 427

Giac [F(-2)]

Exception generated.

$$\int \frac{\sin(100x) - \sin(101x)}{\cos(100x) - \cos(101x)} dx = \text{Exception raised: TypeError}$$

input `integrate((sin(100*x)-sin(101*x))/(cos(100*x)-cos(101*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{540174450688*i,[1,0,16]%%}+%%{1080348901376*i,[1,0,14]%%}+%%{94

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int \sec^4(2(a + bx)) \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(2*b*x+2*a)^4*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 546

Giac [F(-2)]

Exception generated.

$$\int \sec^3(2(a + bx)) \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(2*b*x+2*a)^3*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 547

Giac [F(-2)]

Exception generated.

$$\int \sec^2(2(a + bx))\sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(2*b*x+2*a)^2*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 548

Giac [F(-2)]

Exception generated.

$$\int \sec(2(a + bx))\sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input

```
integrate(sec(2*b*x+2*a)*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 549

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 550

Giac [F(-2)]

Exception generated.

$$\int \cos(2(a + bx)) \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 551

Giac [F(-2)]

Exception generated.

$$\int \cos^2(2(a + bx)) \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^2*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 552

Giac [F(-2)]

Exception generated.

$$\int \cos^3(2(a + bx)) \sqrt{c \tan(a + bx) \tan(2(a + bx))} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^3*(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 553

Giac [F(-2)]

Exception generated.

$$\int (c \tan(a + bx) \tan(2(a + bx)))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 558

Giac [F(-2)]

Exception generated.

$$\int \cos(2(a + bx))(c \tan(a + bx) \tan(2(a + bx)))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)*(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 559

Giac [F(-2)]

Exception generated.

$$\int \cos^2(2(a + bx))(c \tan(a + bx) \tan(2(a + bx)))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^2*(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 560

Giac [F(-2)]

Exception generated.

$$\int \cos^3(2(a + bx))(c \tan(a + bx) \tan(2(a + bx)))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^3*(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 561

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^4(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)^4/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 562

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^3(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)^3/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm m="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 563

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)^2/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 564

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 565

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 566

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm=
"giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 567

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(2(a + bx))}{\sqrt{c \tan(a + bx) \tan(2(a + bx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^2/(c*tan(b*x+a)*tan(2*b*x+2*a))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 568

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^2(2(a + bx))}{(c \tan(a + bx) \tan(2(a + bx)))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)^2/(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{%%{poly1[16,0]:[1,0,-2]%%},[2,8]%%}+%%{%%{poly1[64,0]:[1,0,-2

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 571

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec(2(a + bx))}{(c \tan(a + bx) \tan(2(a + bx)))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sec(2*b*x+2*a)/(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{%%}{poly1[16,0]:[1,0,-2]%%},[2,8]%%}+%%{%%}{poly1[64,0]:[1,0,-2`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 572

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(c \tan(a + bx) \tan(2(a + bx)))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{%%}{poly1[151519232,0]:[1,0,-2]%%},[13,44]%%}+%%{%%}{[181914828`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 573

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos(2(a + bx))}{(c \tan(a + bx) \tan(2(a + bx)))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)/(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{poly1[635929065189015919425421978511412086759299071
667333220

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 574

Giac [F(-2)]

Exception generated.

$$\int \frac{\cos^2(2(a + bx))}{(c \tan(a + bx) \tan(2(a + bx)))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(2*b*x+2*a)^2/(c*tan(b*x+a)*tan(2*b*x+2*a))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{%%{poly1[2,0]:[1,0,-2]%%},[0,4]%%}+%%{%%{poly1[4,0]:
[1,0,-2]%

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 575

Giac [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{\sqrt{a \sin^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tan(d*x+c)/(a*sin(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 793

Giac [F(-2)]

Exception generated.

$$\int (a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation poin
tindex.cc index_m operator + Error: Bad Argument ValueDone`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \cos^m(c + dx)(a \sin(c + dx) + b \tan(c + dx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^m*(a*sin(d*x+c)+b*tan(d*x+c))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,4]%%}+%%{-2,[0,1,2]%%}+%%{-1,[0,1,0]%%} / %%{1,[0,0,6]%%}+%%{-3,[0,0,4]%%}`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \cos^m(c + dx)(a \sin(c + dx) + b \tan(c + dx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(cos(d*x+c)^m*(a*sin(d*x+c)+b*tan(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{-1,[0,1,0]%%} / %%{1,[0,0,2]%%}+%%{-1,[0,0,0]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \sin^3(a + bx) \sqrt{\sin(2a + 2bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sin(b*x+a)^3*sin(2*b*x+2*a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 500

Giac [F(-2)]

Exception generated.

$$\int \cos^3(a + bx) \sqrt{\sin(2a + 2bx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cos(b*x+a)^3*sin(2*b*x+2*a)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 587

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^2 \csc^2(a + bx) \sec(a + bx) dx = \text{Exception raised: AttributeError}$$

input `integrate((d*x+c)^2*csc(b*x+a)^2*sec(b*x+a),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^2 \csc(a + bx) \sec^2(a + bx) dx = \text{Exception raised: AttributeError}$$

input `integrate((d*x+c)^2*csc(b*x+a)*sec(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc(a + bx) \sec^2(a + bx)}{(c + dx)^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(csc(b*x+a)*sec(b*x+a)^2/(d*x+c)^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc^3(a + bx) \sec^3(a + bx)}{c + dx} dx = \text{Exception raised: RuntimeError}$$

input `integrate(csc(b*x+a)^3*sec(b*x+a)^3/(d*x+c),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int x^2 \sin^3 \left(a + \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x^2*sin(a+(-1/n^2)^(1/2)*log(c*x^n))^3,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: ((-9*i)*sageVARn^4*sageVARx^3*exp((-3*i)*sageVARa)*exp((3*sageVARn*abs(sageVARn)*ln(sageVARx)+3*abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*i*sageVARn^4*sageVARx^3*exp((-i)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int x \sin^3 \left(a + \frac{2}{3} \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x*sin(a+2/3*(-1/n^2)^(1/2)*log(c*x^n))^3,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: ((-9*i)*sageVARn^4*sageVARx^2*exp((-3*i)*sageVARa)*exp((2*sageVARn*abs(sageVARn)*ln(sageVARx)+2*abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*i*sageVARn^4*sageVARx^2*exp((-i)

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \sin^3 \left(a + \frac{1}{3} \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

input `integrate(sin(a+1/3*(-1/n^2)^(1/2)*log(c*x^n))^3,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: ((-9*i)*sageVARn^4*sageVARx*exp((-3*i)*sageVARa)*exp((sageVARn*abs(sageVARn)*ln(sageVARx)+abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*i*sageVARn^4*sageVARx*exp((-i)*sageVAR

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \cos^3 \left(a + \frac{1}{3} \sqrt{-\frac{1}{n^2}} \log(cx^n) \right) dx = \text{Exception raised: NotImplementedError}$$

input `integrate(cos(a+1/3*(-1/n^2)^(1/2)*log(c*x^n))^3,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: (9*sageVARn^4*sageVARx*exp((-3*i)*sageVARa)*exp((sageVARn*abs(sageVARn)*ln(sageVARx)+abs(sageVARn)*ln(sageVARc))/sageVARn^2)+27*sageVARn^4*sageVARx*exp((-i)*sageVARa)*exp(

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/259_4.5

Test file number 259

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos(5x) + \sin(2x)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(2*x)),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2*(-1/28*ln(-sin(sageVARx)+1)+1/12*ln(sin(sageVARx)+1)-1/3*ln(abs(2*sin(sageVARx)-1)))+((-7/32768*rootof([[[-3,0,35840,0,-66060288],[1,0,-14336,0,51380224,0,-52613349376]])+)`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^3,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2*((-3216*sin(sageVARx)^2-185*sin(sageVARx)+3374)*1/37044/(sin(sageVARx)^2-1)+(154368*sin(sageVARx)^8+10337792*sin(sageVARx)^7+5628928*sin(sageVARx)^6-12202432*sin(sageVAR`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(2x))^5} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(2*x))^5,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: 2*((-89077056*sin(sageVARx)^4-3291925*sin(sageVARx)^3+181375264*sin(sageVARx)^2+3343075*sin(sageVARx)-92347900)*1/196036848/(sin(sageVARx)^2-1)^2+(760124211200*sin(sageVAR

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\cos(5x) + \sin(4x)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(4*x)),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: 2*(-1/4*ln(-sin(sageVARx)+1)+1/36*ln(sin(sageVARx)+1)-1/9*ln(abs(2*sin(sageVARx)-1)))+((-1/98304*rootof([[[-3,0,46080,0,-113246208],[1,0,-18432,0,84934656,0,-86973087744]]))+

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^3,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2*((11112*sin(sageVARx)^2-365*sin(sageVARx)-11476)*1/2916/(sin(sageVARx)^2-1)+(-1066752*sin(sageVARx)^8+951040*sin(sageVARx)^7+1336768*sin(sageVARx)^6-185216*sin(sageVARx`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\cos(5x) + \sin(4x))^5} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(cos(5*x)+sin(4*x))^5,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 2*((777430272*sin(sageVARx)^4-17980525*sin(sageVARx)^3-1572752288*sin(sageVARx)^2+18157675*sin(sageVARx)+795499160)*1/2834352/(sin(sageVARx)^2-1)^2+(-6634071654400*sin(sag`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/261_4.7

Test file number 261

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} \sqrt{1 - a^2 x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/x^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/x^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/x^4,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{x^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/x^5,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2}(a + b \arcsin(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(3/2)*(a+b*arcsin(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arcsin(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arcsin(c*x))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arcsin(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arcsin(a*x)^(7/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arcsin(cx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arcsin(c*x))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{\pi - c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(\pi - c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(\pi - c^2 \pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(\pi - c^2 \pi x^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-pi*c^2*x^2+pi)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{\pi - c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(\pi - c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(\pi - c^2 \pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{\arcsin(ax)^3}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsin(a*x)^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d - c^2dx^2}(a + b\arcsin(cx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-c^2*d*x^2+d)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-c^2*d*x^2+d)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command:
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arcsin(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arcsin(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arcsin(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3

Test file number 265

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((-c^2*d*x^2+d)^3*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d-c^2x^2}(a+b\arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d-c^2x^2}(a+b\arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2dx^2)^{5/2}(a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2dx^2)^{5/2}(a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)}{\sqrt{1 - a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command:
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d - c^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d - c^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d - c^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d - c^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6 (a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d - c^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{(d - c^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int x^m(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arcsin(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^4/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + b \arcsin(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 221

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int x (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^2,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^3,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 241

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^4/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^2 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/x^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^3 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arcsin(c*x))^2/x^3/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{x^4 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arcsin(c*x))^2/x^4/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arcsin(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1-c^2x^2}}{a+b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 291

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 297

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3(a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-a^2x^2} \arcsin(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-a^2*x^2+1)^(1/2)/arcsin(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1-c^2x^2}(a+b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 334

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + b \arcsin(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{5/2}}{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{3/2}}{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 - c^2 x^2}}{a + b \arcsin(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 340

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (1 - c^2 x^2)^{5/2}}{(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 345

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{3/2}}{(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{1-c^2x^2}}{(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{(1-c^2x^2)^{3/2}}{x(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3 (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3 (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1 - c^2 x^2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 374

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-c^2x^2)^{3/2}(a+b\arcsin(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \frac{d-c^2dx^2}{x(a+b\arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arcsin(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arcsin(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 397

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int x (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^n/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arcsin(ax)^n}{\sqrt{1 - a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsin(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 437

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 439

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3 (a + b \arcsin(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arcsin(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3 (a + b \arcsin(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arcsin(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vector & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^2 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^3 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^3/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/x^4/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 458

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 459

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 460

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 465

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 467

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 468

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 469

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 474

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m(a + b \arcsin(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*arcsin(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 480

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m(a + b \arcsin(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*arcsin(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 481

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))/(e*x+d)^4,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^5,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^6,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 x^2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d - c^2x^2}(a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2x^2}(a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arcsin(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))/(g*x+f)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)^2\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(g*x+f)^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^4(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^4*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^3*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(f + gx)(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsin(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int (f + gx) \sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arcsin(cx))^2}{f + gx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arcsin(c*x))^2/(g*x+f),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3 (a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)^2\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(g*x+f)^2/(-c^2*d*x^2+d)^(1/2),x, algorithm=
"giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((g*x+f)*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(f + gx)(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsin(c*x))^2/(g*x+f)/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^3*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)^2*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*arcsin(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^5} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^5,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2)(a + b \arcsin(cx))}{(d + ex)^6} dx = \text{Exception raised: RuntimeError}$$

input `integrate((h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^6,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx + hx^2 + ix^3)(a + b \arcsin(cx))}{(d + ex)^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((i*x^3+h*x^2+g*x+f)*(a+b*arcsin(c*x))/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)(a + b \arcsin(cx))^2}{g + hx} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x^2+e*x+d)*(a+b*arcsin(c*x))^2/(h*x+g),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex + fx^2)(a + b \arcsin(cx))^2}{(g + hx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x^2+e*x+d)*(a+b*arcsin(c*x))^2/(h*x+g)^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)(a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*h*x^2+2*d*h*x+e*f)*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{(ef + 2dhx + ehx^2)^2 (a + b \arcsin(cx))^2}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*h*x^2+2*d*h*x+e*f)^2*(a+b*arcsin(c*x))^2/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/268_5.1.6

Test file number 268

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} (1 - a^2 x^2)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/268_5.1.6

Test file number 268

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int e^{\arcsin(ax)} \sqrt{1 - a^2 x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(exp(arcsin(a*x))*(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/268_5.1.6

Test file number 268

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos\left(\frac{a}{x}\right)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a/x)/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Limit: Max order reached or unable to make series expansion
Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/269_5.2

Test file number 269

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(arccos(a*x)^3/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\arccos(ax)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3/arccos(a*x)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^3/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^3/x^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + b \arccos(cx))^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/x/(a+b*arccos(c*x))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int (dx)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arccos(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int (dx)^{3/2}(a + b \arccos(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(3/2)*(a+b*arccos(c*x))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + b \arccos(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arccos(c*x))^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{\pi - c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(\pi - c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(\pi - c^2 \pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(\pi - c^2 \pi x^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))/(-pi*c^2*x^2+pi)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{\pi - c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^2/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(\pi - c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^2/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(\pi - c^2 \pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))^2/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command: INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^3}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d - c^2dx^2}(a + b \arccos(cx))} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-c^2*d*x^2+d)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{d - cx^2}(a + b \arccos(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(-c^2*d*x^2+d)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arccos(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/272_5.2.3

Test file number 272

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d-c^2x^2}(a+b\arccos(cx))dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d-c^2x^2}(a+b\arccos(cx))}{x}dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arccos(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a+b \arccos(cx))}{\sqrt{d-c^2dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arccos(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 123

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arccos(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int x^m(d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + b \arccos(cx))^2}{x^4} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccos(c*x))^2/x^4,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arccos(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arccos(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^4 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^4/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 (a + b \arccos(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 208

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 (d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin`

Test file number 273

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d - c^2 x^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin`

Test file number 273

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 x^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + b \arccos(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2/x^4,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arccos(cx))^2}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^5*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2\sqrt{d - c^2x^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^4 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^4/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac"
)
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^4 (d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^4/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 (a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^2 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^3 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/x^3/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{x^4 (d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((a+b*arccos(c*x))^2/x^4/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac"
)
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arccos(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^2}{(c-a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^2/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arcsin

Test file number 273

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^2}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^2/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b\arccos(cx))^2}{d - c^2dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 281

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))^2}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(a + b \arccos(cx))^2}{(d - c^2 dx^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int x^m (d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d - c^2 dx^2} (a + b \arccos(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arccos(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arccos(cx))^2}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 288

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (a + b \arccos(cx))^2}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^m*(a+b*arccos(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{5/2} \arccos(ax)^3 dx = \text{Exception raised: TypeError}$$

input

```
integrate((-a^2*c*x^2+c)^(5/2)*arccos(a*x)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 297

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^3}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{\arccos(ax)^3}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccos(a*x)^3/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 303

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arccos(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 306

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1-c^2x^2}}{a+b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x(a+b\arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3(a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3(a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 341

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-a^2x^2} \arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-a^2*x^2+1)^(1/2)/arccos(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1-c^2x^2}(a+b\arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 353

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{3/2} (a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 365

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + b \arccos(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 367

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{5/2}}{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{3/2}}{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 - c^2 x^2}}{a + b \arccos(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 - c^2 x^2}}{(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 387

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-c^2x^2}}{x^3(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x^3/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 389

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1-c^2x^2)^{3/2}}{(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 391

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x^3(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x^3/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 398

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{5/2}}{(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2x^2)^{5/2}}{x(a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x^3 (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x^3/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1 - c^2 x^2} (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1 - c^2 x^2)^{3/2} (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 421

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-c^2x^2)^{3/2}(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1-c^2x^2)^{5/2}(a+b\arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{5/2} (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{5/2} (a + b \arccos(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(5/2)/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arccos(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 437

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + b \arccos(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arccos(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 444

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \sqrt{\arccos(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 449

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccos(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \arccos(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccos(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d - c^2x^2}(a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 485

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2x^2}(a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 486

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 487

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + b \arccos(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 488

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 490

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 491

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 492

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 493

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 495

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 496

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 497

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 498

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arccos(ax)^n}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccos(a*x)^n/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 500

Giac [F(-2)]

Exception generated.

$$\int \frac{(d+ex^2)(a+b\arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 603

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 605

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2(a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 612

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 614

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3 (a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 621

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^3 (a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 623

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 (a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 626

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 628

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 629

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 630

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 631

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 632

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 633

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^4 (d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^4/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 634

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 635

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 636

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 641

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \arccos(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^5*(a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 643

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 644

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 645

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 650

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 652

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 653

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-
sin

Test file number 273

Integral number in file 654

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d + ex^2)^{7/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(e*x^2+d)^(7/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 655

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m(a + b \arccos(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*arccos(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 659

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m(a + b \arccos(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((f*x)^m*(a+b*arccos(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 660

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 665

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{d + ex^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 667

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 668

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(d + ex^2)^{5/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))^2/(e*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 669

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^2)^2 (a + b \arccos(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(1/(e*x^2+d)^2/(a+b*arccos(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 683

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{d - c^2 dx^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x(d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \arccos(cx))}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^2(d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^2/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{x^3 (d - c^2 dx^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/x^3/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \arccos(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \arccos(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccos(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/274_5.2.4_fx

Test file number 274

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^2*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int (f + gx) \sqrt{d - c^2 dx^2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)*(-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + b \arccos(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccos(c*x))/(g*x+f)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + b \arccos(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x)),x, algorithm="gias")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + b \arccos(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccos(c*x))/(g*x+f),x, algorithm="gias")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(a+b*arccos(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(f + gx)\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccos(c*x))/(g*x+f)/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(f + gx)^2 \sqrt{d - c^2 dx^2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccos(c*x))/(g*x+f)^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 cx^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(1/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{c+a^2cx^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c+a^2cx^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 206

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int x^3(c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 208

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 221

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x^2 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionsym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) E

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x^4 \sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionindex.cc index_m i_lex_is_greater Error: Bad Argument Valu
e

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x^2 (c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x^4 (c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)/x^4/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionindex.c
c index_m`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 240

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x^2 (c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 310

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^2/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 313

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 323

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{x^2\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 336

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{x^4\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{(c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{x^2 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 344

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{x^4 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/x^4/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 349

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^2}{x^2 (c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^2/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^3/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^3/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^3/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^3/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int x^3 (c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 424

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{3/2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^3/x^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 427

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{5/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^3}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^3}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2 cx^2)^{5/2} \arctan(ax)^3}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^3/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 435

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^3}{x^2\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^3/x^2/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^3}{x^4\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^3/x^4/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{(c+a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 443

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^3}{x^2 (c + a^2cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^3/x^2/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 449

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)^3}{x^2 (c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(a*x)^3/x^2/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{3/2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 461

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 462

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 507

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 509

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{3/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 511

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 513

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 517

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x (c + a^2cx^2)^{5/2} \arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 519

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 c x^2)^{5/2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 527

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 c x^2)^{3/2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 528

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 529

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 578

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 580

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 582

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 584

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2 cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 586

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 588

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 590

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 592

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{5/2} \arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 594

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 603

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 604

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 605

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 657

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 659

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 661

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 663

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{(c + a^2 cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 665

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 667

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 669

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 671

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c+a^2cx^2)^{5/2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 679

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 c x^2)^{3/2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 680

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 c x^2}}{\arctan(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 681

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 706

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 712

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 720

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 722

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 723

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 724

Giac [F(-2)]

Exception generated.

$$\int x(c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 726

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 727

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 728

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 730

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 731

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{\sqrt{c + a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 733

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 742

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{\arctan(ax)}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(1/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 750

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 782

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{3/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 788

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 796

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 798

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 799

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(3/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 800

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 801

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 803

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4`

Test file number 279

Integral number in file 804

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4`

Test file number 279

Integral number in file 805

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 806

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 808

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 809

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(3/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 810

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 812

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 821

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 828

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{3/2}}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(3/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 830

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2cx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 863

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \arctan(ax)^{5/2}}{(c + a^2cx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,2,1,0,0]%%} / %%{1,[0,0,0,1,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 869

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 877

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{c + a^2 cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 879

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 880

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{c + a^2cx^2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arctan(a*x)^(5/2)/x,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 881

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 882

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 884

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4`

Test file number 279

Integral number in file 885

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arctan(a*x)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4`

Test file number 279

Integral number in file 886

Giac [F(-2)]

Exception generated.

$$\int x^m (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 887

Giac [F(-2)]

Exception generated.

$$\int x (c + a^2 cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 889

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{5/2} \arctan(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 890

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(5/2)*arctan(a*x)^(5/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 891

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{\sqrt{c + a^2 cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 893

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(ax)^{5/2}}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctan(a*x)^(5/2)/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 908

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^2 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^2/arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,2]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 929

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m}{(c + a^2cx^2)^3 \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m/(a^2*c*x^2+c)^3/arctan(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,0,0]%%} / %%{1,[0,0,1,3]%%} Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 935

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 943

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{3/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 947

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{5/2}}{\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 951

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2 cx^2)^{3/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 961

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 963

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c+a^2cx^2)^{5/2}\sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 966

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 968

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \sqrt{\arctan(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 970

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1006

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 cx^2)^{3/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1010

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m (c + a^2 c x^2)^{5/2}}{\arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1014

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 c x^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1024

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1026

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1028

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{3/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1030

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1033

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1035

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c + a^2cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1037

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (c + a^2 cx^2)^{5/2} \arctan(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1039

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{c + a^2 cx^2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(1/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1075

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{3/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1079

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(c + a^2cx^2)^{5/2}}{\arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1083

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1093

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1095

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1097

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{3/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(3/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1099

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1102

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(c + a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1104

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1106

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^3(c+a^2cx^2)^{5/2} \arctan(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^3/(a^2*c*x^2+c)^(5/2)/arctan(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1108

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1172

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{d + ex^2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)^(1/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1174

Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1182

Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{3/2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)^(3/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1184

Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1192

Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^{5/2} (a + b \arctan(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)^(5/2)*(a+b*arctan(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument V
alue`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1194

Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \arctan(cx)) (d + e \log(1 + c^2x^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arctan(c*x))*(d+e*log(c^2*x^2+1)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1285

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(a + bx)}{c + d\sqrt{x}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(b*x+a)/(c+d*x^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5

Test file number 280

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\arctan(a + bx)}{c + \frac{d}{\sqrt{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(arctan(b*x+a)/(c+d/x^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5

Test file number 280

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \cot^{-1}(c + dx))^3}{(e + fx)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccot(d*x+c))^3/(f*x+e)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(a + bx)}{c + d\sqrt{x}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccot(b*x+a)/(c+d*x^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(a + bx)}{c + \frac{d}{\sqrt{x}}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccot(b*x+a)/(c+d/x^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \cot^{-1}(c + dx)}{e + fx + gx^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccot(d*x+c))/(g*x^2+f*x+e),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Modgcd: no suitable evaluation pointModgcd: no suitable evaluation point Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5

Test file number 285

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\sec^{-1}(\sqrt{x})}{x} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(arcsec(x^(1/2))/x,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Invalid series expansion: non tractable function acos at +infinity`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/286_5.5

Test file number 286

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int x^3 \sec^{-1}(a + bx)^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arcsec(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/286_5.5

Test file number 286

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x^2(a + b \sec^{-1}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsec(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int (a + b \sec^{-1}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec^{-1}(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int x^3 (a + b \sec^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsec(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int x^2(a + b \sec^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsec(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int x(a + b \sec^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsec(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int (a + b \sec^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \sec^{-1}(cx))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))^3/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \sec^{-1}(cx))^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/(a+b*arcsec(c*x))^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsec(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \sec^{-1}(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsec(c*x))/x^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \sec^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsec(c*x))/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \sec^{-1}(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsec(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x^2/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{x (d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/x/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \sec^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \sec^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsec(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b \sec^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11*(a+b*arcsec(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \sec^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(a+b*arcsec(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.5_Inverse_secant/287_5.5.1

Test file number 287

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{\csc^{-1}(\sqrt{x})}{x} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(arccsc(x^(1/2))/x,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: Invalid series expansion: non tractable function asin at +infinity`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/288_5.6

Test file number 288

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int x^3 \csc^{-1}(a + bx)^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*arccsc(b*x+a)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage20OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/288_5.6

Test file number 288

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x^2 (a + b \csc^{-1}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccsc(c*x))^2,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^{-1}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \csc^{-1}(cx))^2}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int x^3(a + b \csc^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccsc(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int x^2(a + b \csc^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccsc(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int x(a + b \csc^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccsc(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int (a + b \csc^{-1}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + b \csc^{-1}(cx))^3}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))^3/x,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \operatorname{csc}^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccsc(c*x))/x,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)(a + b \operatorname{csc}^{-1}(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccsc(c*x))/x^3,x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \csc^{-1}(cx))}{x} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*x^2+d)^2*(a+b*arccsc(c*x))/x,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + ex^2)^2 (a + b \csc^{-1}(cx))}{x^3} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((e*x^2+d)^2*(a+b*arccsc(c*x))/x^3,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{d + ex^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2(d + ex^2)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 105

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x^2 (d + ex^2)^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x^2/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 112

Giac [F(-2)]

Exception generated.

$$\int \frac{x(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{x(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/x/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(a + b \csc^{-1}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 116

Giac [F(-2)]

Exception generated.

$$\int \frac{a + b \csc^{-1}(cx)}{(d + ex^2)^3} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccsc(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b \csc^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11*(a+b*arccsc(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b \csc^{-1}(cx))}{\sqrt{1 - c^4 x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(a+b*arccsc(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.6_Inverse_cosecant/289_5.6.1

Test file number 289

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^2(a + bx)\operatorname{sech}(a + bx)}{x^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(csch(b*x+a)^2*sech(b*x+a)/x^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int x \cosh^{\frac{5}{2}}(a + bx) \sinh(a + bx) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*cosh(b*x+a)^(5/2)*sinh(b*x+a),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int x \cosh(a + bx) \sinh^{\frac{5}{2}}(a + bx) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*cosh(b*x+a)*sinh(b*x+a)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,0]%%} / %%{1,[0,0,0,2]%%} Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \cosh(c + dx) - a \sinh(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*cosh(d*x+c)-a*sinh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{1,[2,0]%%}+%%{2,[1,1]%%}+%%{1,[0,2]%%},[4]%%}+%%{%%{[%%`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 518

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[3,0]%%}+%%{3,[2,1]%%}+%%{3,[1,2]%%}+%%{1,[0,3
]%%}, [6]

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 519

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{1,[4,0]%%}+%%{4,[3,1]%%}+%%{6,[2,2]%%}+%%{4,[1,3
]%%}+%%

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 520

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [1,0]%%}+%%{1, [0,1]%%}, [0,3,0]%%}+%%{%%}{[1,0]: [1,0,%%}{-`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 532

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/((b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%}{1, [1,0]%%}+%%{1, [0,1]%%}, [0,5,0]%%}+%%{%%}{[1,0]: [1,0,%%}{-`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 533

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-\sqrt{b^2 - c^2} + b \cosh(x) + c \sinh(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/(-(b^2-c^2)^(1/2)+b*cosh(x)+c*sinh(x))^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{-1,[1,0]%%}+%%{-1,[0,1]%%},[0,5,0]%%}+%%{%%{[1,0]:[1,0,%%}
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 539

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(c + dx)}{\sqrt{a \cosh^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(coth(d*x+c)/(a*cosh(d*x+c)^2)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6

Test file number 290

Integral number in file 702

Giac [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^2 \operatorname{csch}^3(c + dx) \operatorname{sech}^2(c + dx)}{a + b \sinh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x+e)^2*csc(d*x+c)^3*sech(d*x+c)^2/(a+b*sinh(d*x+c)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 496

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^7(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^7/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^5(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^5/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^5(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^5/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{(a+b\sinh^2(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c+dx)}{(a+b\sinh^2(c+dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{(a+b\sinh^2(c+dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(f*x+e)*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(f*x+e)*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \operatorname{csch}^3(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^5(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^2(c + dx)}{a + b \sinh^3(c + dx)} dx = \text{Exception raised: AttributeError}$$

input `integrate(sinh(d*x+c)^2/(a+b*sinh(d*x+c)^3),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^7(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^7/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^5/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{a + b \sinh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c+dx)}{a+b\sinh^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*sinh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 291

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^5/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 294

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b \sinh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sinh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 301

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^5/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 304

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 306

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b \sinh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sinh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}(e + fx) \sqrt{a + b \sinh^2(e + fx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(f*x+e)*(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation
over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 318

Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(f*x+e)*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int \operatorname{sech}^3(e + fx) (a + b \sinh^2(e + fx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(f*x+e)^3*(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(e + fx)}{\sqrt{a + b \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(f*x+e)/(a+b*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 338

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(e + fx)}{(a + b \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(f*x+e)^3/(a+b*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 346

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(f*x+e)^5/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 355

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(e + fx)}{(a + b \sinh^2(e + fx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(f*x+e)/(a+b*sinh(f*x+e)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 358

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^5/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 401

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 403

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 407

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 409

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^6(e + fx)}{\sqrt{a + a \sinh^2(e + fx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^6/(a+a*sinh(f*x+e)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^5/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 411

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^3/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^2/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 417

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^4(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^4/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^6(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^6/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 419

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^8(e + fx)}{(a + a \sinh^2(e + fx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(f*x+e)^8/(a+a*sinh(f*x+e)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2

Test file number 298

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \cosh(c + dx)}{(a + bx^2)^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(x^4*cosh(d*x+c)/(b*x^2+a)^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/300_6.2.2

Test file number 300

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{x(a + bx^2)^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(cosh(d*x+c)/x/(b*x^2+a)^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/300_6.2.2

Test file number 300

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{x(a + bx^3)^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(cosh(d*x+c)/x/(b*x^3+a)^2,x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/300_6.2.2

Test file number 300

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int (a + a \cosh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int (a + a \cosh(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \cosh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*cosh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \cosh(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*cosh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \cosh(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*cosh(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + a \cosh(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*cosh(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a \cosh^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*cosh(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \cosh^{\frac{5}{2}} \left(a + \frac{2 \log(cx^n)}{n} \right) dx = \text{Exception raised: AttributeError}$$

input `integrate(cosh(a+2*log(c*x^n)/n)^(5/2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int \cosh^{\frac{3}{2}} \left(a + \frac{2 \log(cx^n)}{n} \right) dx = \text{Exception raised: NotImplementedError}$$

input `integrate(cosh(a+2*log(c*x^n)/n)^(3/2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: sqrt(2)/2*2/16*sageVARx*sqrt(sageVARx^2*exp(sageVARa)*exp(ln(sageVARc)/sageVARn)^2+sageVARx^6*exp(sageVARa)^3*exp(ln(sageVARc)/sageVARn)^6)+sqrt(2)/2*exp(ln(sageVARc)/sage

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/303_6.2.5

Test file number 303

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^7(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(x)^7/(a+b*cosh(x)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^5(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(x)^5/(a+b*cosh(x)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(x)^3/(a+b*cosh(x)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(x)/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(x)/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(x)^3/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^5(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(x)^5/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^7(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(x)^7/(a+b*cosh(x)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^5(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(x)^5/(a+b*cosh(x)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(x)^3/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(x)/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(x)/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(x)^3/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(x)}{a + b \cosh^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(x)^5/(a+b*cosh(x)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/305_6.2.7.2

Test file number 305

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int (c + dx) \sqrt{b \tanh(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)*(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{c + dx}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)/(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionindex.cc index_m i_lex_is_greater Error`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^2 \sqrt{b \tanh(e + fx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2*(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{\sqrt{b \tanh(e + fx)}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x+c)^2/(b*tanh(f*x+e))^(1/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionindex.cc index_m i_lex_is_greater Error`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1

Test file number 306

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int (b \tanh(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (b \tanh(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (b \tanh(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \sqrt{b \tanh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*tanh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \tanh(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tanh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionindex.cc index_m`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tanh(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tanh(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tanh(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tanh(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \tanh(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*tanh(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \tanh(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*tanh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionindex.cc index_m`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \tanh(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*tanh(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/307_6.3.2

Test file number 307

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx = \text{Exception raised: AttributeError}$$

input `integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^3),x, algorithm="giac")`

output Exception raised: AttributeError >> type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/308_6.3.7

Test file number 308

Integral number in file 106

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/308_6.3.7

Test file number 308

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{a + b \tanh^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*tanh(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 115

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 117

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(c + dx)}{(a + b \tanh^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^7/(a+b*tanh(d*x+c)^2)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 126

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 127

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tangent/308_6.3.7

Test file number 308

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/308_6.3.7

Test file number 308

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(c + dx)}{(a + b \tanh^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^7/(a+b*tanh(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.3_Hyperbolic_tan-
gent/308_6.3.7

Test file number 308

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{7/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int \sqrt{b \coth(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \coth(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionindex.cc index_m`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotan-
gent/310_6.4.2

Test file number 310

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater E
rror: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotan-
gent/310_6.4.2

Test file number 310

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{4/3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(4/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Minimal poly. in rootof must be fraction free Error: Bad Argument ValueMinimal poly. in rootof must be fraction free E`

input file name `test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2`

Test file number 310

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (b \coth(c + dx))^{2/3} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c))^(2/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Minimal poly. in rootof must be fraction free Error: Bad Argument ValueMinimal poly. in rootof must be fraction free E`

input file name `test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2`

Test file number 310

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{2/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(2/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Minimal poly. in rootof must be fra
ction free Error: Bad Argument ValueMinimal poly. in rootof must be fracti
on free E

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotan-
gent/310_6.4.2

Test file number 310

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth(c + dx))^{4/3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c))^(4/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Minimal poly. in rootof must be fra
ction free Error: Bad Argument ValueMinimal poly. in rootof must be fracti
on free E

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (b \coth^3(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^3)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \sqrt{b \coth^3(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((b*coth(d*x+c)^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 30

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{b \coth^3(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^3)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(b \coth^3(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(b*coth(d*x+c)^3)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \coth(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*coth(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \coth(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*coth(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^3*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \coth(x) \sqrt{a + b \coth^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)*(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \coth^2(x)} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*coth(x)^2)^(1/2)*tanh(x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^3*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \coth(x) (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)*(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int (a + b \coth^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^3/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{\sqrt{a + b \coth^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^2/(a+b*coth(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{(a + b \coth^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)/(a+b*coth(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{(a + b \coth^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)/(a+b*coth(x)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/311_6.4.7

Test file number 311

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{asech}(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sech(d*x+c))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{asech}(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sech(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + a \operatorname{sech}(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+a*sech(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + a \operatorname{sech}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sech(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + \operatorname{asech}(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+a*sech(d*x+c))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - \operatorname{asech}(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-a*sech(d*x+c))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:index.cc index_m i_lex_is_greater Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{sech}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/sech(2*log(c*x))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly exception caught Unable to convert to real %%{poly1[1.000000000000000000000000000000,0.000000000000000000000000000000]}

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 160

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{sech}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/sech(2*log(c*x))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly exception caught Unable to convert to real %%{poly1[1.000000000000000000000000000000,0.000000000000000000000000000000]}

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/314_6.5.3

Test file number 314

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c+dx)}{a+b\operatorname{sech}^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{a+b\operatorname{sech}^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c+dx)}{(a+b\operatorname{sech}^2(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c+dx)}{(a+b\operatorname{sech}^2(c+dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{\sinh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sinh(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{csch}^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(csch(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c+dx)}{a+b\operatorname{sech}^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c+dx)}{a+b\operatorname{sech}^2(c+dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^7/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{\cosh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(cosh(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^5(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^5/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{sech}^7(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(sech(d*x+c)^7/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^5/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 138

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(c + dx)}{a + b\operatorname{sech}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)^3/(a+b*sech(d*x+c)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^5/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 154

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)^3/(a+b*sech(d*x+c)^2)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^5/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(c + dx)}{(a + b\operatorname{sech}^2(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(d*x+c)^3/(a+b*sech(d*x+c)^2)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b\operatorname{sech}^2(x)} \tanh^5(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^4(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^3(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2)*tanh(x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} \tanh(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2)*tanh(x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \coth(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisatio
n over extensionDegree mismatch inside factorisation over extensionDegree
mismatch

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \coth^3(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^3*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 184

Giac [F(-2)]

Exception generated.

$$\int \coth^4(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^4*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \coth^5(x) \sqrt{a + b \operatorname{sech}^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^5*(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int (a + b\operatorname{sech}^2(x))^{3/2} \tanh^3(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(3/2)*tanh(x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 187

Giac [F(-2)]

Exception generated.

$$\int (a + b\operatorname{sech}^2(x))^{3/2} \tanh^2(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(3/2)*tanh(x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(x))^{3/2} \tanh(x) dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(3/2)*tanh(x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 190

Giac [F(-2)]

Exception generated.

$$\int \coth(x) (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)*(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to divide, perhaps due to rounding error%%{2048,[4,6]%%}+%

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 191

Giac [F(-2)]

Exception generated.

$$\int \coth^2(x) (a + b \operatorname{sech}^2(x))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2*(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to divide, perhaps due to rounding error%%{2048,[4,6]%%}+%

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{sech}^2(c + dx))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*sech(d*x+c)^2)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(x)}{\sqrt{a + b \operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^5/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^4/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^3(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^3/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^2(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^2/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 197

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{coth}(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 200

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^2(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^2/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth^3(x)}{\sqrt{a + b\operatorname{sech}^2(x)}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)^3/(a+b*sech(x)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^5(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^5/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionDegree mismatch inside factorisation over extensionUnable to divide`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^4(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^4/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{(a + b\operatorname{sech}^2(x))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)/(a+b*sech(x)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{\tanh^6(x)}{(a + b\operatorname{sech}^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(tanh(x)^6/(a+b*sech(x)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int \frac{\coth(x)}{(a + b\operatorname{sech}^2(x))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(x)/(a+b*sech(x)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{sech}^2(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*sech(d*x+c)^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisatio
n over extensionNot implemented, e.g. for multivariate mod/approx polynomi
alsError:`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.5_Hyperbolic_secant/315_6.5.7

Test file number 315

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{csch}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/csch(2*log(c*x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly exception caught Unable to convert to real %#{poly1[1.000000000000000000000000000000,0.000000000000000000000000000000]}`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/318_6.6.3

Test file number 318

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{\sqrt{\operatorname{csch}(2 \log(cx))}} dx = \text{Exception raised: TypeError}$$

input `integrate(x/csch(2*log(c*x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly exception caught Unable to convert to real %#{poly1[1.000000000000000000000000000000,0.000000000000000000000000000000]}`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/318_6.6.3

Test file number 319

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{csch}^2(c + dx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*csch(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + b \operatorname{csch}^2(c + dx)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*csch(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b\operatorname{csch}^2(c + dx)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{csch}^2(c + dx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{csch}^2(c + dx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b\operatorname{csch}^2(c + dx))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*csch(d*x+c)^2)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Degree mismatch inside factorisation over extensionNot implemented, e.g. for multivariate mod/approx polynomialsError:`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.6_Hyperbolic_cosecant/319_6.6.7

Test file number 319

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^4 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(a-I*b*arcsin(-1+I*d*x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^4 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 258

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(a-I*b*arcsin(1+I*d*x^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 259

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{a - ib \arcsin(1 + idx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 260

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 263

Giac [F(-2)]

Exception generated.

$$\int (a + ib \arcsin(1 - idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + ib \arcsin(1 - idx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(-1+I*d*x^2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 265

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + ib \arcsin(1 - idx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a + ib \arcsin(1 - idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(-1+I*d*x^2))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int (a - ib \arcsin(1 + idx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a - ib \arcsin(1 + idx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a-I*b*arcsin(1+I*d*x^2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a - ib \arcsin(1 + idx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(a - ib \arcsin(1 + idx^2))^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a-I*b*arcsin(1+I*d*x^2))^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/324_7.1

Test file number 324

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/325_7.1.1

Test file number 325

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x^3(c + \operatorname{darccosh}(ex))(a + \operatorname{barcsinh}(ex)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c+d*arccosh(e*x))*(a+b*arcsinh(e*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int x^2(c + d\operatorname{arccosh}(ex))(a + b\operatorname{arcsinh}(ex)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c+d*arccosh(e*x))*(a+b*arcsinh(e*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int x^4\operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 27

Giac [**F(-2)**]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 28

Giac [**F(-2)**]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^3/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^3/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arcsinh(a*x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arcsinh(a*x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x*arcsinh(a*x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^4}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^4/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arcsinh}(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/arcsinh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + \operatorname{barcsinh}(cx))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arcsinh(c*x))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(dx)^{3/2}(a + b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(dx)^{3/2}(a + b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(d*x)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 107

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 118

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 120

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arcsinh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 125

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arcsinh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arcsinh(a*x)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{arcsinh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barcsinh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2`

Test file number 326

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(a + \operatorname{barcsinh}(cx))^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(a+b*arcsinh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2`

Test file number 326

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arcsinh}(ax)^n dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/326_7.1.2

Test file number 326

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int (c + a^2 cx^2)^{3/2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input

```
integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{(c + a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(arcsinh(a*x)^3/(a^2*c*x^2+c)^(5/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} \sqrt{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 103

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} \sqrt{a + b \operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^(1/2),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 108

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int (c + a^2cx^2)^{3/2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(3/2)*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c + a^2cx^2} \operatorname{arcsinh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*c*x^2+c)^(1/2)*arcsinh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 114

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barcsinh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 201

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeDone
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{3/2}(a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 207

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 208

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))}{(d + icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{97184646537921245984760353193167563976182579200,[3,10,0,10]}+%%
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```


input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{d + icdx}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(1/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(d + icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{\sqrt{f - icfx}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \operatorname{barcsinh}(cx))}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument Valuesym2poly/r2sym(const g
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Warning, need to choose a branch fo
r the root of a polynomial with parameters. This might be wrong.The choice
was done
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + \text{barcsinh}(cx))}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))/(f-I*c*f*x)^(5/2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barcsinh}(cx)}{(d + icdx)^{5/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.The choice was done`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} \sqrt{f - icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeDone
```


input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx} \sqrt{f-icfx} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 239

Giac [F(-2)]

Exception generated.

$$\int (d+icdx)^{5/2} (f-icfx)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad
Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 243

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2}(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 244

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+icdx}(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 245

Giac [F(-2)]

Exception generated.

$$\int \frac{(f-icfx)^{3/2}(a+\operatorname{barcsinh}(cx))^2}{(d+icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2141434160603574753022016108099864691368882995200000,[3,10,0,0,10]%%`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(3/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{5/2}(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 249

Giac [F(-2)]

Exception generated.

$$\int (d + icdx)^{3/2} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeError: Bad Argument TypeDone
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 250

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + icdx} (f - icfx)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(1/2)*(f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 251

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + b\operatorname{arcsinh}(cx))^2}{\sqrt{d + icdx}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 252

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 253

Giac [F(-2)]

Exception generated.

$$\int \frac{(f - icfx)^{5/2}(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f-I*c*f*x)^(5/2)*(a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 254

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + b\operatorname{arcsinh}(cx))^2}{\sqrt{f - icfx}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(1/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 255

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + b\operatorname{arcsinh}(cx))^2}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(3/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```


input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Degree mismatch inside factorisation over extensionUnable to transpose Error: Bad Argument ValueDegree mismatch inside
```

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3`

Test file number 327

Integral number in file 262

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(3/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 266

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(d + icdx)^{5/2}(a + b\operatorname{arcsinh}(cx))^2}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((d+I*c*d*x)^(5/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(5/2),x, algo
rithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + icdx)^{3/2}(a + \operatorname{barcsinh}(cx))^2}{(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((d+I*c*d*x)^(3/2)*(a+b*arcsinh(c*x))^2/(f-I*c*f*x)^(5/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{3/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(3/2)/(f-I*c*f*x)^(5/2),x, algo
rithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/327_7.1.3

Test file number 327

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2}{(d + icdx)^{5/2}(f - icfx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))^2/(d+I*c*d*x)^(5/2)/(f-I*c*f*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/327_7.1.3

Test file number 327

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int x^4(d + c^2dx^2)(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + b \operatorname{arcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{\pi + c^2\pi x^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int x \sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{\pi + c^2 \pi x^2} (a + \operatorname{barcsinh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(1/2)*(a+b*arcsinh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int x^5 (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int x^3 (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int x (\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 68

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(3/2)*(a+b*arcsinh(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int x^5 (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 77

Giac [**F(-2)**]

Exception generated.

$$\int x^3 (\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int x(\pi + c^2\pi x^2)^{5/2} (a + b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2\pi x^2)^{5/2} (a + b\operatorname{arcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int (\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^10,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{(\pi + c^2 \pi x^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((pi*c^2*x^2+pi)^(5/2)*(a+b*arcsinh(c*x))/x^12,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + b \operatorname{arcsinh}(cx))}{\sqrt{\pi + c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{\sqrt{\pi + c^2\pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 100

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + b \operatorname{arcsinh}(cx))}{(\pi + c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \operatorname{arcsinh}(cx))}{(\pi + c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 102

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(\pi + c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + b \operatorname{arcsinh}(cx))}{(\pi + c^2 \pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(a+b*arcsinh(c*x))/(pi*c^2*x^2+pi)^(5/2),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 113

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 122

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d+c^2x^2} (a+b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d+c^2x^2}(a+\operatorname{barcsinh}(cx))dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 131

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d+c^2x^2}(a+\operatorname{barcsinh}(cx))dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 132

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + b \operatorname{arcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 135

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2}(a + \operatorname{barcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 136

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 137

Giac [F(-2)]

Exception generated.

$$\int x (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 139

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 143

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 144

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + b \operatorname{arcsinh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 152

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 153

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 155

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{x^6(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^6*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
 perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))}{(d + c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
 perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt[3]{1+c^2x^2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*x^2+1)^(1/3)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 192

Giac [F(-2)]

Exception generated.

$$\int x\sqrt[3]{1+c^2x^2}(a+\operatorname{barcsinh}(cx))dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*x^2+1)^(1/3)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{1+c^2x^2}(a+\operatorname{barcsinh}(cx))}{x}dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/3)*(a+b*arcsinh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 195

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{1+c^2x^2}(a+\operatorname{barcsinh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/3)*(a+b*arcsinh(c*x))/x^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 196

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 197

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 198

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 199

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 203

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 204

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 205

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 210

Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 211

Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 212

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 213

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 214

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 215

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)(a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int x^2(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 221

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 229

Giac [F(-2)]

Exception generated.

$$\int x^2 (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 230

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 235

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 237

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{d + c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 238

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 246

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 247

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 256

Giac [F(-2)]

Exception generated.

$$\int x^3\sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d + c^2x^2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2x^2}(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 267

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 270

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 271

Giac [F(-2)]

Exception generated.

$$\int x^3(d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 272

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 274

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 275

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 276

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 278

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 279

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 280

Giac [F(-2)]

Exception generated.

$$\int x (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 283

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 284

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 285

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2/x^4,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^2}{\sqrt{1 + a^2 x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*arcsinh(a*x)^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^2}{x^2\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^2/x^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 294

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^2}{x^4\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^2/x^4/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 296

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 297

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{\sqrt{d + c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 299

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{(d + c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac"
)
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 308

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 317

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barcsinh}(cx))^2}{(d + c^2dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arcsinh(c*x))^2/(c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 328

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2) (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int x^m (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 334

Giac [F(-2)]

Exception generated.

$$\int x^m \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 335

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^3}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*arcsinh(a*x)^3/(a^2*x^2+1)^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arcsinh}(ax)^3}{x^2\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arcsinh(a*x)^3/x^2/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 347

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3\sqrt{1+c^2x^2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 350

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 354

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x^3(a+\operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 356

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{3/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 357

Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{3/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 359

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x(a + \operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(3/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x^3(a + \operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(3/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{5/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{5/2}}{a+b\operatorname{arcsinh}(cx)} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x(a + \operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(5/2)/x/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 368

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x^3(a + \operatorname{barcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(5/2)/x^3/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+a^2x^2}\operatorname{arcsinh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(a^2*x^2+1)^(1/2)/arcsinh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 385

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 390

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (d + c^2 dx^2)^{3/2}}{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(c^2*d*x^2+d)^(3/2)/(a+b*arcsinh(c*x)),x, algorithm="gias")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 392

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m \sqrt{d + c^2 dx^2}}{a + \operatorname{barcsinh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(c^2*d*x^2+d)^(1/2)/(a+b*arcsinh(c*x)),x, algorithm="gias")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 393

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 + c^2 x^2}}{(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + c^2 x^2}}{x(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 400

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+c^2x^2}}{x^3(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(1/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 402

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1+c^2x^2)^{3/2}}{(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{3/2}}{(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 406

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+c^2x^2)^{3/2}}{x(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(3/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 408

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{3/2}}{x^3 (a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(3/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 410

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(1 + c^2 x^2)^{5/2}}{(a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 412

Giac [F(-2)]

Exception generated.

$$\int \frac{x(1+c^2x^2)^{5/2}}{(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 414

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+c^2x^2)^{5/2}}{x(a+\operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(5/2)/x/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 416

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + c^2 x^2)^{5/2}}{x^3 (a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*x^2+1)^(5/2)/x^3/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1 + c^2 x^2} (a + \operatorname{barcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 422

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1+c^2x^2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 428

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + c^2 x^2)^{3/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1+c^2x^2)^{3/2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{(1+c^2x^2)^{5/2}(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 + c^2 x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 436

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 + c^2 x^2)^{5/2} (a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 438

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{5/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*x^2+1)^(5/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 440

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1+c^2x^2)^{3/2}}{(a+b\operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*x^2+1)^(3/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 441

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m \sqrt{1 + c^2 x^2}}{(a + b \operatorname{arcsinh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(c^2*x^2+1)^(1/2)/(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)}{(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(c^2*d*x^2+d)/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int \frac{d + c^2 dx^2}{x^3(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)/x^3/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d + c^2 dx^2)^2}{(a + b \operatorname{arcsinh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(x*(c^2*d*x^2+d)^2/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/x/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^2}{x^3(a + \operatorname{barcsinh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^2/x^3/(a+b*arcsinh(c*x))^(3/2),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 459

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 462

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 463

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 465

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 467

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 468

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 469

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 470

Giac [F(-2)]

Exception generated.

$$\int x(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 472

Giac [F(-2)]

Exception generated.

$$\int (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4

Test file number 328

Integral number in file 473

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 474

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))^n/x^2,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/328_7.1.4

Test file number 328

Integral number in file 475

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arcsinh}(ax)^n}{\sqrt{1+a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arcsinh(a*x)^n/(a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1.4`

Test file number 328

Integral number in file 477

Giac [F(-2)]

Exception generated.

$$\int (d+ex)^3(a+b\operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^3*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5`

Test file number 329

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^3*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d + ex)(a + \operatorname{barcsinh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)*(a+b*arcsinh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5`

Test file number `329`

Integral number in file `34`

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d + c^2 dx^2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5`

Test file number `329`

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int (f + gx)\sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5`

Test file number 329

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2dx^2}(a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d + c^2 dx^2} (a + b \operatorname{arcsinh}(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(1/2)*(a+b*arcsinh(c*x))/(g*x+f)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{3/2} (a + b \operatorname{arcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^2*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="g
iac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{3/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(3/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^3*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)^2*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{(d + c^2 dx^2)^{5/2} (a + \operatorname{barcsinh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((c^2*d*x^2+d)^(5/2)*(a+b*arcsinh(c*x))/(g*x+f),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx))^2 \log(h(f + gx)^m)}{\sqrt{1 + c^2x^2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a+b*arcsinh(c*x))^2*log(h*(g*x+f)^m)/(c^2*x^2+1)^(1/2),x, algor
ithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,1,1,0,0]}+%%{-1,[0,0,1,1,0,0]} / %%{1,[0,0,
0,0,1,1]}%
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hy-
perbolic_sine/329_7.1.5

Test file number 329

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barcsinh}(cx)) \log(h(f + gx)^m)}{\sqrt{1 + c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arcsinh(c*x))*log(h*(g*x+f)^m)/(c^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,1,1,0,0]}+%%{-1,[0,0,1,1,0,0]} / %%{1,[0,0,0,0,1,1]}%

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/329_7.1.5

Test file number 329

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(c + dx)}{(ce + dex)^5} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^2}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^3}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^4}{(ce + dex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^4/(d*e*x+c*e)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{arccosh}(c + dx)}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))/(d*e*x+c*e)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{arccosh}(c + dx))^2}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^2/(d*e*x+c*e)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(c + dx))^3}{(ce + dex)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x+c))^3/(d*e*x+c*e)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 151

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(-1 + dx^2))^4 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^4,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 156

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(-1 + dx^2))^3 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^3,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 157

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(-1 + dx^2))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 158

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + \operatorname{arccosh}(1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{arccosh}(-1 + dx^2))^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(-1 + dx^2))^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \sqrt{a + \operatorname{barccosh}(-1 + dx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error:
Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/330_7.2

Test file number 330

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{a + b \operatorname{arccosh}(-1 + dx^2)}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*arccosh(d*x^2-1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:index.cc index_m operator + Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/330_7.2

Test file number 330

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int (a + b \operatorname{arccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7.2.1

Test file number 331

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccosh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^3/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^3/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 31

Giac [F(-2)]

Exception generated.

$$\int x^5 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 32

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 33

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 35

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^4 dx = \text{Exception raised: TypeError}$$

input `integrate(x*arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 36

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^4}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^4/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/arccosh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^4,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2`

Test file number 332

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2`

Test file number 332

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int x^4 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*arccosh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 84

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 85

Giac [F(-2)]

Exception generated.

$$\int x^2 \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*arccosh(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int x \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*arccosh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccosh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{\operatorname{arccosh}(ax)}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 104

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\operatorname{arccosh}(ax)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/arccosh(a*x)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int x^3 \operatorname{arccosh}(ax)^n dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^n,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int x^3 (a + b \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 133

Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 134

Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int x^2(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int x(a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 149

Giac [F(-2)]

Exception generated.

$$\int (a + \operatorname{barccosh}(cx))^{5/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((a+b*arccosh(c*x))^(5/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 150

Giac [F(-2)]

Exception generated.

$$\int \sqrt{dx}(a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((d*x)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/332_7.2.2

Test file number 332

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + \operatorname{barccosh}(cx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2 \pi x^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2 \pi x^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{\sqrt{\pi - c^2 \pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(\pi - c^2 \pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(\pi - c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{a + \operatorname{barccosh}(cx)}{(\pi - c^2\pi x^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))/(-pi*c^2*x^2+pi)^(7/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int (\pi - c^2\pi x^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\pi - c^2\pi x^2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-pi*c^2*x^2+pi)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{\sqrt{\pi - c^2\pi x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^2/(-pi*c^2*x^2+pi)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{(\pi - c^2\pi x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^2/(-pi*c^2*x^2+pi)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2}{(\pi - c^2\pi x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^2/(-pi*c^2*x^2+pi)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 54

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^2}{(c - a^2cx^2)^{7/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^2/(-a^2*c*x^2+c)^(7/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int (c - a^2cx^2)^{3/2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arccosh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(ax)^3}{(c - a^2cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(a*x)^3/(-a^2*c*x^2+c)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 69

Giac [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arccosh(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \sqrt{\operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \operatorname{arccosh}(ax)^{3/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2 cx^2} \operatorname{arccosh}(ax)^{5/2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arccosh(a*x)^(5/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^4 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^4*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 128

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 129

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{barccosh}(cx))^{3/2} dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/333_7.2.3

Test file number 333

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int x^4 (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 2

Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2 dx^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 3

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 4

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)(a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int x^4(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 17

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 18

Giac [F(-2)]

Exception generated.

$$\int x^4 (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 19

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 20

Giac [F(-2)]

Exception generated.

$$\int x^2(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 24

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 25

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 26

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^3 (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^3*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 27

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 28

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{d - c^2 dx^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 29

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))}{(d - c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2dx^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 38

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2dx^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d - c^2dx^2}(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 59

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 60

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int x^5 \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 62

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 x^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 63

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d - c^2x^2}(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 64

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2x^2}(a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 66

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/x^5,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 70

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 71

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 72

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 73

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^10,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 75

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 76

Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 77

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 78

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 79

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 81

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 82

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 83

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 86

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 87

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 88

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 89

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^8,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 90

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^{10}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^10,x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 91

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^{12}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^12,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 92

Giac [F(-2)]

Exception generated.

$$\int x^7 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 93

Giac [F(-2)]

Exception generated.

$$\int x^5 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 94

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 95

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 97

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 98

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 99

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 101

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 109

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 110

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 111

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 119

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d - c^2 dx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 121

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 130

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^3 (a + b \operatorname{arccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 140

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2) (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 142

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 147

Giac [F(-2)]

Exception generated.

$$\int (fx)^m \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 148

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 159

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d-c^2x^2}(a+\operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 161

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d-c^2x^2}(a+\operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 162

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 163

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2/x^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 164

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 x^2} (a + \operatorname{arccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2/x^3,x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 165

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 166

Giac [F(-2)]

Exception generated.

$$\int x^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 167

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 169

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 170

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 171

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 172

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 173

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2/x^4,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 174

Giac [F(-2)]

Exception generated.

$$\int x^3(d - c^2 dx^2)^{5/2} (a + \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 177

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 178

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 179

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^2,x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 181

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 182

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 183

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^2}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 193

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^2}{(d - c^2dx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(3/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 194

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arccosh}(cx))^2}{(d - c^2x^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^3*(a+b*arccosh(c*x))^2/(-c^2*d*x^2+d)^(5/2),x, algorithm="giac
")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 202

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 209

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{5/2} (a + b \operatorname{arccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 216

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int (fx)^m \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arccosh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arccosh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1-c^2x^2}}{a + b \operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 236

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 242

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 248

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1 - a^2 x^2} \operatorname{arccosh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-a^2*x^2+1)^(1/2)/arccosh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 251

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1 - c^2 x^2}(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 257

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1 - c^2 x^2}(a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 261

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - c^2 x^2)^{3/2} (a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 264

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1 - c^2 x^2)^{3/2} (a + \operatorname{barccosh}(cx))} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 266

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m(1 - c^2x^2)^{3/2}}{a + b\operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 268

Giac [F(-2)]

Exception generated.

$$\int \frac{x^m\sqrt{1 - c^2x^2}}{a + b\operatorname{arccosh}(cx)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^m*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 269

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{1 - c^2 x^2}}{(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 273

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 - c^2 x^2}}{x(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(1/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 277

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{3/2}}{x(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(3/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 282

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - c^2 x^2)^{5/2}}{x(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*x^2+1)^(5/2)/x/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 287

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5}{\sqrt{1-c^2x^2}(a+b\operatorname{arccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5/(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 289

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt{1-c^2x^2}(a+b\operatorname{arccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 291

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x\sqrt{1-c^2x^2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 295

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1-c^2x^2)^{3/2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 298

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-c^2x^2)^{3/2}(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 300

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m(1-c^2x^2)^{3/2}}{(a+\operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*x^2+1)^(3/2)/(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 302

Giac [F(-2)]

Exception generated.

$$\int \frac{(fx)^m \sqrt{1-c^2x^2}}{(a + \operatorname{barccosh}(cx))^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((f*x)^m*(-c^2*x^2+1)^(1/2)/(a+b*arccosh(c*x))^2,x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 303

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 307

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(-c^2*d*x^2+d)/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 309

Giac [F(-2)]

Exception generated.

$$\int \frac{d - c^2 dx^2}{x(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 311

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(d - c^2 dx^2)^2}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^3*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage20OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 312

Giac [F(-2)]

Exception generated.

$$\int \frac{x(d - c^2 dx^2)^2}{(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(-c^2*d*x^2+d)^2/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 314

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^2}{x(a + \operatorname{barccosh}(cx))^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^2/x/(a+b*arccosh(c*x))^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 316

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{d-c^2x^2}(a+\operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 319

Giac [F(-2)]

Exception generated.

$$\int \sqrt{d-c^2x^2}(a+\operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 320

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 321

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))^n/x^2,x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 322

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 324

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 325

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 326

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))^n/x^2,x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 327

Giac [F(-2)]

Exception generated.

$$\int x(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 329

Giac [F(-2)]

Exception generated.

$$\int (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 330

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 331

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))^n}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))^n/x^2,x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 332

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^n}{\sqrt{1 - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))^n/(-c^2*x^2+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 333

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))^n}{\sqrt{d - c^2dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))^n/(-c^2*d*x^2+d)^(1/2),x, algorithm="giac
")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 339

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2)^2 (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)^2*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 351

Giac [F(-2)]

Exception generated.

$$\int (fx)^m (d - c^2 dx^2) (a + \operatorname{barccosh}(cx))^n dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)^m*(-c^2*d*x^2+d)*(a+b*arccosh(c*x))^n,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4`

Test file number 334

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int x^4(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 360

Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 361

Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 362

Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 363

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2) (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + ex^2)^2 (a + \operatorname{arccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 369

Giac [F(-2)]

Exception generated.

$$\int x^3(d + ex^2)^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 370

Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^2(a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 371

Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 372

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int x^4 (d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^4*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 378

Giac [F(-2)]

Exception generated.

$$\int x^3 (d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 379

Giac [F(-2)]

Exception generated.

$$\int x^2(d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x^2*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int x(d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate(x*(e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 381

Giac [F(-2)]

Exception generated.

$$\int (d + ex^2)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x^2+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 382

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{d + ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{barccosh}(cx))}{(d + ex^2)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5(a + \operatorname{barccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3(a + \operatorname{arccosh}(cx))}{(d + ex^2)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccosh(c*x))/(e*x^2+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/334_7.2.4

Test file number 334

Integral number in file 405

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d + ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(c*x)/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 6

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)}{(d+ex)^4} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(c*x)/(e*x+d)^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int (d+ex)^3 \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^3*arccosh(c*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)^2*arccosh(c*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int (d + ex) \operatorname{arccosh}(cx)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)*arccosh(c*x)^2,x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(c*x)^2/(e*x+d)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{\operatorname{arccosh}(cx)^2}{(d+ex)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(arccosh(c*x)^2/(e*x+d)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Limit: Max order reached or unable
to make series expansion Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^3*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 15

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^3 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^3*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 21

Giac [F(-2)]

Exception generated.

$$\int (d + ex)^2 (a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)^2*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 22

Giac [F(-2)]

Exception generated.

$$\int (d + ex)(a + \operatorname{barccosh}(cx))^2 dx = \text{Exception raised: RuntimeError}$$

input `integrate((e*x+d)*(a+b*arccosh(c*x))^2,x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage20OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage20OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 41

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 42

Giac [F(-2)]

Exception generated.

$$\int (f + gx) \sqrt{d - c^2 dx^2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve cteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 43

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{d - c^2 dx^2}(a + \operatorname{barccosh}(cx))}{(f + gx)^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-c^2*d*x^2+d)^(1/2)*(a+b*arccosh(c*x))/(g*x+f)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 45

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 47

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((g*x+f)*(-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x)),x, algorithm="gi
ac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const ve
cteur & l) Error: Bad Argument Value
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hy-
perbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 48

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{3/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(3/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^3 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^3*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int (f + gx)^2 (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)^2*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 51

Giac [F(-2)]

Exception generated.

$$\int (f + gx) (d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx)) dx = \text{Exception raised: RuntimeError}$$

input `integrate((g*x+f)*(-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5`

Test file number 335

Integral number in file 52

Giac [F(-2)]

Exception generated.

$$\int \frac{(d - c^2 dx^2)^{5/2} (a + \operatorname{barccosh}(cx))}{f + gx} dx = \text{Exception raised: TypeError}$$

input `integrate((-c^2*d*x^2+d)^(5/2)*(a+b*arccosh(c*x))/(g*x+f),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5`

Test file number 335

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{(a + \operatorname{barccosh}(cx))^2 \log(h(f + gx)^m)}{\sqrt{1 - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*arccosh(c*x))^2*log(h*(g*x+f)^m)/(-c^2*x^2+1)^(1/2),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{36,[0,2,1,1,1,3,0,0]%%}+%%{-24,[0,2,1,1,1,2,1,0]%%}+%%{-12,[0,2
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/335_7.2.5

Test file number 335

Integral number in file 67

Giac [F(-2)]

Exception generated.

$$\int \operatorname{arctanh}(a + bf^{c+dx}) dx = \text{Exception raised: RuntimeError}$$

input

```
integrate(arctanh(a+b*f^(d*x+c)),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0,0,0]%%}+%%{2,[0,1,1,1,1,0]%%}+%%{-2,[0,1,1,0,0,0]%%}+%%{1,[0,1,0,2,0,1]%%
```

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/336_7.3

Test file number 336

Integral number in file 352

Giac [F(-2)]

Exception generated.

$$\int \frac{x^5 \operatorname{arctanh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*arctanh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 364

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 366

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^2}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)^2/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 373

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^3}{\sqrt{1-a^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)^3/(-a^2*x^2+1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 380

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)}{(1 - a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)/(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^2}{(1 - a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)^2/(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 396

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \operatorname{arctanh}(ax)^3}{(1 - a^2x^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*arctanh(a*x)^3/(-a^2*x^2+1)^(3/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
 perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 404

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
 PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
 index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
 perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-a^2x^2)^{3/2} \operatorname{arctanh}(ax)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 415

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1-a^2x^2)^{3/2} \operatorname{arctanh}(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 418

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-a^2x^2)^{3/2} \operatorname{arctanh}(ax)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 420

Giac [F(-2)]

Exception generated.

$$\int \frac{x}{(1-a^2x^2)^{3/2} \operatorname{arctanh}(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 423

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x(1-a^2x^2)^{3/2} \operatorname{arctanh}(ax)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x/(-a^2*x^2+1)^(3/2)/arctanh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 425

Giac [F(-2)]

Exception generated.

$$\int x^3 \sqrt{1-a^2x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 427

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{1-a^2x^2}\operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 429

Giac [F(-2)]

Exception generated.

$$\int \sqrt{1-a^2x^2}\operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 430

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 431

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 432

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 434

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 435

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 436

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)}{x^7} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)/x^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 437

Giac [F(-2)]

Exception generated.

$$\int x^3\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 439

Giac [F(-2)]

Exception generated.

$$\int x\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 441

Giac [F(-2)]

Exception generated.

$$\int \sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 442

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 443

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 444

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1-a^2x^2}\operatorname{arctanh}(ax)^2}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 446

Giac [F(-2)]

Exception generated.

$$\int x^3(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 448

Giac [F(-2)]

Exception generated.

$$\int x(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate(x*(-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 450

Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 451

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 452

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 453

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 454

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^4,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 455

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^5} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^5,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 456

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^6,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 457

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax)}{x^7} dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x)/x^7,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 458

Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{5/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(5/2)*arctanh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 459

Giac [F(-2)]

Exception generated.

$$\int (1 - a^2x^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(3/2)*arctanh(a*x),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 460

Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 461

Giac [F(-2)]

Exception generated.

$$\int (c - a^2 cx^2)^{3/2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(3/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 465

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c - a^2cx^2} \operatorname{arctanh}(ax) dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*c*x^2+c)^(1/2)*arctanh(a*x),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 466

Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2x^2} \operatorname{arctanh}(ax)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 471

Giac [F(-2)]

Exception generated.

$$\int \sqrt{1 - a^2 x^2} \operatorname{arctanh}(ax)^3 dx = \text{Exception raised: TypeError}$$

input `integrate((-a^2*x^2+1)^(1/2)*arctanh(a*x)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 475

Giac [F(-2)]

Exception generated.

$$\int x^3 (a + b \operatorname{arctanh}(cx)) (d + e \log(1 - c^2 x^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arctanh(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac"
)`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hy-
perbolic_tangent/339_7.3.4

Test file number 339

Integral number in file 522

Giac [F(-2)]

Exception generated.

$$\int x^5 (a + b \coth^{-1}(cx)) (d + e \log(1 - c^2 x^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^5*(a+b*arccoth(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/341_7.4

Test file number 341

Integral number in file 145

Giac [F(-2)]

Exception generated.

$$\int x^3 (a + b \coth^{-1}(cx)) (d + e \log(1 - c^2 x^2)) dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(a+b*arccoth(c*x))*(d+e*log(-c^2*x^2+1)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/341_7.4

Test file number 341

Integral number in file 146

Giac [F(-2)]

Exception generated.

$$\int \coth^{-1}(a + bf^{c+dx}) dx = \text{Exception raised: RuntimeError}$$

input `integrate(arccoth(a+b*f^(d*x+c)),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,2,0,0,0]}%%}+%%{2,[0,1,1,1,1,0]}%%}+%%{-2,[0,1,1,0,0,0]}%%}+%%{1,[0,1,0,2,0,1]}%%`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/341_7.4

Test file number 341

Integral number in file 168

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11*(a+b*arcsech(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1

Test file number 347

Integral number in file 185

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b\operatorname{sech}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(a+b*arcsech(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name `test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1`

Test file number 347

Integral number in file 186

Giac [F(-2)]

Exception generated.

$$\int \frac{x^{11}(a + b\operatorname{csch}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^11*(a+b*arccsch(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 175

Giac [F(-2)]

Exception generated.

$$\int \frac{x^7(a + b\operatorname{csch}^{-1}(cx))}{\sqrt{1 - c^4x^4}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^7*(a+b*arccsch(c*x))/(-c^4*x^4+1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1

Test file number 349

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^m \psi^{(n)}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^m*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^(sageVARm))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)));;OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVA`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 217

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^3 \psi^{(n)}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^3*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^3)*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))):;OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) Er`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 218

Giac [F(-2)]

Exception generated.

$$\int (c + dx)^2 \psi^{(n)}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^2*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^2)*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))):;OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) Er`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int (c + dx)\psi^{(n)}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=(((sageVARd)*(sageVARx))+sageVARc))*(Psi(sageVARn,((sageVARb)*(sageVARx))+sageVARa));;OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) Error: B`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 220

Giac [F(-2)]

Exception generated.

$$\int \psi^{(n)}(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=Psi(sageVARn,((sageVARb)*(sageVARx))+sageVARa));;OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) Error: Bad Argument Value`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 221

Giac [F(-2)]

Exception generated.

$$\int \frac{\psi^{(n)}(a+bx)}{c+dx} dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/(d*x+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))(-1))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) E`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 222

Giac [F(-2)]

Exception generated.

$$\int \frac{\psi^{(n)}(a+bx)}{(c+dx)^2} dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/(d*x+c)2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))(-2))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) E`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 223

Giac [F(-2)]

Exception generated.

$$\int \frac{\psi^{(n)}(a+bx)}{(c+dx)^3} dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/(d*x+c)^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=(((sageVARd)*(sageVARx))+(sageVARc))^-3)*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa) E`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 224

Giac [F(-2)]

Exception generated.

$$\int (c+dx)^{3/2} \psi^{(n)}(a+bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(3/2)*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=(((sageVARd)*(sageVARx))+(sageVARc))^(3/2))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa)`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 225

Giac [F(-2)]

Exception generated.

$$\int \sqrt{c+dx} \psi^{(n)}(a+bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)^(1/2)*Psi(n,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^(1/2))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa)`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 226

Giac [F(-2)]

Exception generated.

$$\int \frac{\psi^{(n)}(a+bx)}{\sqrt{c+dx}} dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/(d*x+c)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^(-1/2))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa)`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 227

Giac [F(-2)]

Exception generated.

$$\int \frac{\psi^{(n)}(a+bx)}{(c+dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/(d*x+c)^(3/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((((sageVARd)*(sageVARx))+(sageVARc))^(3/2))*(Psi(sageVARn,((sageVARb)*(sageVARx))+(sageVARa)))));OUTPUT:Psi(sageVARn,sageVARb*sageVARx+sageVARa)`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 228

Giac [F(-2)]

Exception generated.

$$\int \left(\frac{\psi^{(n)}(a+bx)}{x^2} - \frac{b\psi^{(1+n)}(a+bx)}{x} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(Psi(n,b*x+a)/x^2-b*Psi(1+n,b*x+a)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARb)*((sageVARx)^(-1))*(Psi((sageVARn)+(1),((sageVARb)*(sageVARx))+(sageVARa))))*(-1))+(((sageVARx)^(-2))*(Psi(sageVARn,((sageVARb)*sageVARx+sageVARa))))`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 231

Giac [F(-2)]

Exception generated.

$$\int x^2 \zeta(s, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x^2*Zeta(0,s,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARx)^(2))*(Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument Va`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int x \zeta(s, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x*Zeta(0,s,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=(sageVARx)*(Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument Value`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int \zeta(s, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(Zeta(0,s,b*x+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument Value`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 10

Giac [F(-2)]

Exception generated.

$$\int \frac{\zeta(s, a + bx)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(Zeta(0,s,b*x+a)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARx)^(-1))*(Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument V`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 11

Giac [F(-2)]

Exception generated.

$$\int \frac{\zeta(s, a + bx)}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate(Zeta(0,s,b*x+a)/x^2,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARx)^(-2))*(Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument V`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 12

Giac [F(-2)]

Exception generated.

$$\int \frac{\zeta(s, a + bx)}{x^3} dx = \text{Exception raised: TypeError}$$

input `integrate(Zeta(0,s,b*x+a)/x^3,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARx)^(-3))*(Zeta(0,sageVARs,((sageVARb)*(sageVARx))+(sageVARa)));OUTPUT:Zeta(0,sageVARs,sageVARb*sageVARx+sageVARa) Error: Bad Argument V`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 13

Giac [F(-2)]

Exception generated.

$$\int \left(\frac{\zeta(s, a + bx)}{x^2} + \frac{bs\zeta(1 + s, a + bx)}{x} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(Zeta(0,s,b*x+a)/x^2+b*s*Zeta(0,1+s,b*x+a)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage0:=((sageVARb)*(sageVARs)*((sageVARx)^(-1))*(Zeta(0,(sageVARs)+(1),((sageVARb)*(sageVARx))+(sageVARa))))+(((sageVARx)^(-2))*(Zeta(0,sageVARs),((sageVA`

input file name test_cases/rubi_tests/8_Special_functions/356_8.7

Test file number 356

Integral number in file 14

Giac [F(-2)]

Exception generated.

$$\int \sqrt{x\sqrt{x^{3/2}}} dx = \text{Exception raised: TypeError}$$

input `integrate((x*(x^(3/2))^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:gen.cc:simplify/tmp.type!=_EXT Error: Bad Argument Value`

input file name test_cases/extra_tests/359_MIT

Test file number 359

Integral number in file 219

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x^2}{10+7x+x^2+e^{5+x}(10+2x)}}(40x+14x^2+e^{5+x}(40x-16x^2-4x^3))}{100+140x+69x^2+14x^3+x^4+e^{10+2x}(100+40x+4x^2)+e^{5+x}(200+180x+48x^2+4x^3)} dx$$

= Exception raised: TypeError

input

```
integrate((-4*x^3-16*x^2+40*x)*exp(5)*exp(x)+14*x^2+40*x)*exp(2*x^2/((2*x+10)*exp(5)*exp(x)+x^2+7*x+10))/((4*x^2+40*x+100)*exp(5)^2*exp(x)^2+(4*x^3+48*x^2+180*x+200)*exp(5)*exp(x)+x^4+14*x^3+69*x^2+140*x+100),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{4, [1, 16]%%}+%%{-176, [1, 15]%%}+%%{3392, [1, 14]%%}+%%{-37408, [1,
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{-20e^{2+\frac{5}{-2+e^2x^4}}x^4 + \left(-4 + 4e^2x^4 - e^4x^8 + e^{\frac{5}{-2+e^2x^4}}(4 - 4e^2x^4 + e^4x^8)\right) \log\left(-1 + e^{\frac{5}{-2+e^2x^4}}\right)}{-4 + 4e^2x^4 - e^4x^8 + e^{\frac{5}{-2+e^2x^4}}(4 - 4e^2x^4 + e^4x^8)} dx$$

= Exception raised: AttributeError

input `integrate(((x^8*exp(2)^2-4*x^4*exp(2)+4)*exp(5/(x^4*exp(2)-2))-x^8*exp(2)^2+4*x^4*exp(2)-4)*log(exp(5/(x^4*exp(2)-2))-1)-20*x^4*exp(2)*exp(5/(x^4*exp(2)-2)))/((x^8*exp(2)^2-4*x^4*exp(2)+4)*exp(5/(x^4*exp(2)-2))-x^8*exp(2)^2+4*x^4*exp(2)-4),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 23

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{x^3}{8e^3x^2+e^5x^3+e^x(8e^3+e^5x)}} (128e^6x^4 + 16e^3x^5 + 32e^8x^5 + 2e^{10}x^6 + e^{2x}(128e^6 + 32e^8x + 2e^{10}x^2) + e^x(256e^6x^2 + 64e^6x^4 + 16e^8x^5 + e^{10}x^6 + e^{2x}(64e^6 + 16e^8x + e^{10}x^2) + e^x(128e^6x^2$$

= Exception raised: TypeError

input `integrate(((2*x^2*exp(5)^2+32*x*exp(3)*exp(5)+128*exp(3)^2)*exp(x)^2+(4*x^4*exp(5)^2+(64*x^3*exp(3)-2*x^5+4*x^4)*exp(5)+256*x^2*exp(3)^2+(-16*x^4+48*x^3)*exp(3))*exp(x)+2*x^6*exp(5)^2+32*x^5*exp(3)*exp(5)+128*x^4*exp(3)^2+16*x^5*exp(3))*exp(x^3/((x*exp(5)+8*exp(3))*exp(x)+x^3*exp(5)+8*x^2*exp(3)))/((x^2*exp(5)^2+16*x*exp(3)*exp(5)+64*exp(3)^2)*exp(x)^2+(2*x^4*exp(5)^2+32*x^3*exp(3)*exp(5)+128*x^2*exp(3)^2)*exp(x)+x^6*exp(5)^2+16*x^5*exp(3)*exp(5)+64*x^4*exp(3)^2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{64, [0, 8, 42, 46]%%}+%%{-768, [0, 8, 41, 46]%%}+%%{7168, [0, 8, 41, 44]%%}`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 74

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{4}{\log(x)} \left(x + e^{\frac{4}{\log(x)} (65536 + 512x + x^2)} \right)} + e^{-\frac{4}{\log(x)} \left(x + e^{\frac{4}{\log(x)} (65536 + 512x + x^2)} \right)} - \frac{4}{\log(x)} \left(-4 - \log^2(x) + e^{\frac{4}{\log(x)} (-512 - 2)} \right)}{\log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((( -2*x-512)*log(x)^2*exp(4/log(x))-log(x)^2-4)*exp(((x^2+512*x+65536)*exp(4/log(x))+x)/exp(4/log(x)))*exp(-exp(((x^2+512*x+65536)*exp(4/log(x))+x)/exp(4/log(x))))+3)/log(x)^2/exp(4/log(x)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:int(sage0,sageVARx) Error: Invalid dimension
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 176

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5 + (-2 - 36x^2 - e^{2x}x^2 - 24x^3 - 4x^4 + e^x(12x^2 + 4x^3)) \log(\frac{1}{2}(4 + e^x))}{\log(\frac{1}{2}(4 + e^x))}}}{(4 + e^x) \log^2(\frac{1}{2}(4 + e^x))} (-5e^x + (-288x - 288x^2 - 64x^3 + e^{3x}(-2x - 2x^2) + e^x)$$

= Exception raised: TypeError

input

```
integrate(((( -2*x^2-2*x)*exp(x)^3+(4*x^3+16*x^2+16*x)*exp(x)^2+(24*x^2+24*x)*exp(x)-64*x^3-288*x^2-288*x)*log(1/2*exp(x)+2)^2-5*exp(x))*exp((( -exp(x)^2*x^2+(4*x^3+12*x^2)*exp(x)-4*x^4-24*x^3-36*x^2-2)*log(1/2*exp(x)+2)+5)/log(1/2*exp(x)+2))/(exp(x)+4)/log(1/2*exp(x)+2)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-8000,[0,3,3]%%}+%%{-36000,[0,3,2]%%}+%%{-36000,[0,3,1
]%%} / %
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 286

Giac [F(-2)]

Exception generated.

$$\int \frac{(-7x + \frac{1}{9}e^{5+2x}x + e^5(24x - 10x^2 + x^3) + \frac{1}{3}e^x(x + x^2 + e^5(11x - 2x^2))) \log^2(x) + e^{\frac{4}{\log(x)}} \left(-\frac{4e^{5+x}}{3} + e^5 \right)}{\left(\frac{1}{9}e^{5+2x}x + \frac{1}{3}e^{5+x}(10x - 2x^2) + e^5(25x - 10x^2 + x^3) \right) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((-x*exp(5)*exp(-log(3)+x)+x*exp(5))*log(x)^2-4*exp(5)*exp(-log
(3)+x)+(4*x-20)*exp(5))*exp(4/log(x))+(x*exp(5)*exp(-log(3)+x)^2+((-2*x^2+
11*x)*exp(5)+x^2+x)*exp(-log(3)+x)+(x^3-10*x^2+24*x)*exp(5)-7*x)*log(x)^2)
/(x*exp(5)*exp(-log(3)+x)^2+(-2*x^2+10*x)*exp(5)*exp(-log(3)+x)+(x^3-10*x^
2+25*x)*exp(5))/log(x)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-128,[0,6,2,0,0]%%}+%%{-256,[0,6,1,1,0]%%}+%%{768,[0,6
,1,0,0]%%}
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 315

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3x-x^2+x^{-10+5x}+9x^2 \log(x)}{x}} \left(160x^2 - 160x^3 + 40x^4 + (180x^2 - 180x^3 + 45x^4) \log(x) + x^{-\frac{x}{-10+5x}} (-20 + 22x) \right)}{20x^2 - 20x^3 + 5x^4}$$

= Exception raised: TypeError

input

```
integrate(((2*x*log(x)-6*x^2+22*x-20)*exp(-x*log(x)/(5*x-10)))+(45*x^4-180*x^3+180*x^2)*log(x)+40*x^4-160*x^3+160*x^2)*exp((exp(-x*log(x)/(5*x-10))+x^2*log(x)-x^2+3*x)/x)/(5*x^4-20*x^3+20*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-2880000,[1,8]%%}+%%{25920000,[1,7]%%} / %%{1600000,[0,6]%%} E
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 413

Giac [F(-2)]

Exception generated.

$$\int \frac{-10x^2 - 2e^3x^2 + e^{e^{\frac{5x+25x^4+5e^3x^4}{5+e^3}} + \frac{5x+25x^4+5e^3x^4}{5+e^3}} (5x + 100x^4 + 20e^3x^4) + \left(e^{e^{\frac{5x+25x^4+5e^3x^4}{5+e^3}}} (-5 - e^3) + 5x^2 + \dots \right)}{-5x^4 - e^3x^4 + e^{e^{\frac{5x+25x^4+5e^3x^4}{5+e^3}}} (5x^2 + e^3x^2)}$$

= Exception raised: TypeError

input

```
integrate((((-exp(3)-5)*exp(exp((5*x^4*exp(3)+25*x^4+5*x)/(exp(3)+5)))+x^2*exp(3)+5*x^2)*log(-exp(exp((5*x^4*exp(3)+25*x^4+5*x)/(exp(3)+5)))+x^2)+(20*x^4*exp(3)+100*x^4+5*x)*exp((5*x^4*exp(3)+25*x^4+5*x)/(exp(3)+5))*exp(exp((5*x^4*exp(3)+25*x^4+5*x)/(exp(3)+5)))-2*x^2*exp(3)-10*x^2)/((x^2*exp(3)+5*x^2)*exp(exp((5*x^4*exp(3)+25*x^4+5*x)/(exp(3)+5)))-x^4*exp(3)-5*x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{8000,[0,2,18,3,15]%%}+%%{200000,[0,2,18,3,12]%%}+%%{20
0000,[0,
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 426

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{-3x+(1-3x)\log(x)}{x^2\log(x)}} \left(-3e^5x - 6x^2 + (-3e^5x - 6x^2)\log(x) - 2e^{-\frac{-3x+(1-3x)\log(x)}{x^2\log(x)}} x^3 \log^2(x) + (e^5(2-3x) + 4x \right)}{(e^{10}x^3 + 4e^5x^4 + 4x^5)\log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((-2*x^3*log(x)^2*exp(((1-3*x)*log(x)-3*x)/x^2/log(x)))+((2-3*x)*e
xp(5)-2*x^3-6*x^2+4*x)*log(x)^2+(-3*x*exp(5)-6*x^2)*log(x)-3*x*exp(5)-6*x^
2)/(x^3*exp(5)^2+4*x^4*exp(5)+4*x^5)/log(x)^2/exp(((1-3*x)*log(x)-3*x)/x^2
/log(x)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-13824,[0,25,0]%%}+%%{-48384,[0,24,1]%%}+%%{-72576,[0,
23,2]%%}
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 433

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{-11x-x^2+e^{x^2}(10+x)+e^{\frac{x}{2}}(-e^{x^2}+x)}{-10+e^{\frac{x}{2}}-x}} \left(\frac{220x + 40x^2 + 2x^3 + e^{\frac{x}{x}}(2x - 4e^{x^2}x^2) + e^{x^2}(-400x^2 - 80x^3 - 4x^4) + e^{x^2}(-40x - 4x^2)}{200x + 2e^{\frac{x}{x}}x + 40x^2 + 2x^3 + e^{\frac{x}{2x}}(-40x - 4x^2)} \right)$$

= Exception raised: TypeError

input

```
integrate((( -4*exp(x^2)*x^2+2*x)*exp(1/2*exp(x)/x)^2+((8*x^3+80*x^2)*exp(x^2)+(-1+x)*exp(x)-4*x^2-42*x)*exp(1/2*exp(x)/x)+(-4*x^4-80*x^3-400*x^2)*exp(x^2)+2*x^3+40*x^2+220*x)*exp((( -exp(x^2)+x)*exp(1/2*exp(x)/x)+(x+10)*exp(x^2)-x^2-11*x)/(exp(1/2*exp(x)/x)-x-10))/(2*x*exp(1/2*exp(x)/x)^2+(-4*x^2-40*x)*exp(1/2*exp(x)/x)+2*x^3+40*x^2+200*x), x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-32, [0,8,9,6,25]%%}+%%{-1696, [0,8,9,6,24]%%}+%%{-35232, [0,8,9,6
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 445

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{41958+104976x+122472x^2+81648x^3+34020x^4+9072x^5+1512x^6+144x^7+6x^8}{19683x+52488x^2+61236x^3+40824x^4+17010x^5+4536x^6+756x^7+72x^8+3x^9+e^{2x}(6561x+17496x^2+20412x^3+13608x^4+5670x^5+1512x^6+252x^7+24x^8+x^9)}} \frac{177147x^2 + 531441x^3 + 708588x^4 + 551124x^5 + 275562x^6 + 91854x^7 + 20412x^8 + 2916x^9 + 2}{200x + 2e^{\frac{x}{x}}x + 40x^2 + 2x^3 + e^{\frac{x}{2x}}(-40x - 4x^2)}$$

= Exception raised: TypeError

input

```
integrate((( -12*x^10-330*x^9-4050*x^8-29160*x^7-136080*x^6-428652*x^5-9185
40*x^4-1312200*x^3-1186164*x^2-629370*x-125874)*exp(x)^2-18*x^9-486*x^8-58
32*x^7-40824*x^6-183708*x^5-551124*x^4-1102248*x^3-1417176*x^2-1132866*x-3
77622)*exp((6*x^8+144*x^7+1512*x^6+9072*x^5+34020*x^4+81648*x^3+122472*x^2
+104976*x+41958)/((x^9+24*x^8+252*x^7+1512*x^6+5670*x^5+13608*x^4+20412*x^
3+17496*x^2+6561*x)*exp(x)^2+3*x^9+72*x^8+756*x^7+4536*x^6+17010*x^5+40824
*x^4+61236*x^3+52488*x^2+19683*x))/((x^11+27*x^10+324*x^9+2268*x^8+10206*x
^7+30618*x^6+61236*x^5+78732*x^4+59049*x^3+19683*x^2)*exp(x)^4+(6*x^11+162
*x^10+1944*x^9+13608*x^8+61236*x^7+183708*x^6+367416*x^5+472392*x^4+354294
*x^3+118098*x^2)*exp(x)^2+9*x^11+243*x^10+2916*x^9+20412*x^8+91854*x^7+275
562*x^6+551124*x^5+708588*x^4+531441*x^3+177147*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-864, [1,61]%%}+%%{-140832, [1,60]%%}+%%{-11267640, [1,59
]%%}+%%%
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 595

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{9x+6x^2+x^3} + \frac{e^{5+x}(-6x-2x^2)(1+x \log(x))}{\log(x)} + \frac{e^{10+2x}x(1+x \log(x))^2}{\log^2(x)}}}{(-27x^2 - 27x^3 - 9x^4 - x^5) \log(x) + (-27x^3 - 27x^4 - 9x^5 - x^6) \log^2(x) + \frac{e^{15+3x}(1+x \log(x))^3(x^2 \log(x) + x^3 \log^2(x))}{\log^3(x)}} = \text{Exception raised: TypeError}$$

input

```
integrate(((((-2*x^2-3*x)*log(x)^2+(-1-2*x)*log(x)+2)*exp(log((x*log(x)+1)/log(x))+5+x)+(3*x^2+3*x)*log(x)^2+(3*x+3)*log(x))*exp(1/(x*exp(log((x*log(x)+1)/log(x))+5+x)^2+(-2*x^2-6*x)*exp(log((x*log(x)+1)/log(x))+5+x)+x^3+6*x^2+9*x)))/((x^3*log(x)^2+x^2*log(x))*exp(log((x*log(x)+1)/log(x))+5+x)^3+((-3*x^4-9*x^3)*log(x)^2+(-3*x^3-9*x^2)*log(x))*exp(log((x*log(x)+1)/log(x))+5+x)^2+((3*x^5+18*x^4+27*x^3)*log(x)^2+(3*x^4+18*x^3+27*x^2)*log(x))*exp(log((x*log(x)+1)/log(x))+5+x)+(-x^6-9*x^5-27*x^4-27*x^3)*log(x)^2+(-x^5-9*x^4-27*x^3-27*x^2)*log(x))),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 601

Giac [**F(-2)**]

Exception generated.

$$\int \frac{(-8x^2 + 2x^3 - 2x^4) \log(5) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right) + (16 - 8x + 12x^2 + (-4x^2 + 2x^3 - 3x^4) \log(5)) \log(-16x + 4x^2 - 4x^3 + (4x^3 - x^4 + x^5) \log(5)) \log(5)}{(-16x + 4x^2 - 4x^3 + (4x^3 - x^4 + x^5) \log(5)) \log(5)}$$

= Exception raised: TypeError

input

```
integrate(((2*x^4-2*x^3+8*x^2)*log(5)*log(-1/4*x^3+1/4*x^2-x)*log(log(-1/4*x^3+1/4*x^2-x)))+((-3*x^4+2*x^3-4*x^2)*log(5)+12*x^2-8*x+16)*log(x^2*log(5)-4)+(-2*x^4+2*x^3-8*x^2)*log(5)*log(-1/4*x^3+1/4*x^2-x))/((x^5-x^4+4*x^3)*log(5)-4*x^3+4*x^2-16*x)/log(-1/4*x^3+1/4*x^2-x)/log(x^2*log(5)-4)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad Argument ValueError index.cc index_gcd Error: Bad Argument Value
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 700

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{40x+9e^x x+9x^2-20\log(2)}{e^x x+x^2}} \frac{(-40x^2 + 40x \log(2) + e^x(-40x^2 + (20 + 20x) \log(2)))}{e^{2x}x^2 + 2e^x x^3 + x^4} dx$$

= Exception raised: TypeError

input

```
integrate((((20*x+20)*log(2)-40*x^2)*exp(x)+40*x*log(2)-40*x^2)*exp((9*exp(x)*x-20*log(2)+9*x^2+40*x)/(exp(x)*x+x^2))/(exp(x)^2*x^2+2*exp(x)*x^3+x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{640, [1,15,0]%%}+%%{-1600, [1,14,1]%%}+%%{-1920, [1,14,0]%%}+%%{-
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 716

Giac [F(-2)]

Exception generated.

$$\int \frac{(50 - 10e^x - 10x) \log^2(-5 + e^x + x) + e^{\frac{2x-2x^2}{\log(-5+e^x+x)}} (-4x^3 + 8x^4 - 4x^5 + e^x(-4x^3 + 8x^4 - 4x^5)) + (-2(-125x^2 + 25e^x x^2 + 25x^3) \log^2(-5 + e^x + x) + e^{\frac{2x-2x^2}{\log(-5+e^x+x)}} (50x^3 - 60x^4 + 10x^5 + e^x(-$$

= Exception raised: TypeError

input

```
integrate(((((-6*x^2+4*x)*exp(x)-6*x^3+34*x^2-20*x)*log(exp(x)+x-5)^2+((8*x^4-12*x^3+4*x^2)*exp(x)+8*x^5-52*x^4+64*x^3-20*x^2)*log(exp(x)+x-5)+(-4*x^5+8*x^4-4*x^3)*exp(x)-4*x^5+8*x^4-4*x^3)*exp((-2*x^2+2*x)/log(exp(x)+x-5)))+(-10*exp(x)-10*x+50)*log(exp(x)+x-5)^2)/(((x^6-2*x^5+x^4)*exp(x)+x^7-7*x^6+11*x^5-5*x^4)*log(exp(x)+x-5)^2*exp((-2*x^2+2*x)/log(exp(x)+x-5))^2+((10*x^4-10*x^3)*exp(x)+10*x^5-60*x^4+50*x^3)*log(exp(x)+x-5)^2*exp((-2*x^2+2*x)/log(exp(x)+x-5)))+(25*exp(x)*x^2+25*x^3-125*x^2)*log(exp(x)+x-5)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{8, [0, 10, 17]%%}+%%{-96, [0, 10, 16]%%}+%%{448, [0, 10, 15]%%}+%%{-11
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 899

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2x-2e^x \log(\frac{13}{4}) + \log^2(\frac{13}{4})} (3-3x) - 11x}{e^{-4+e^{2x-2e^x \log(\frac{13}{4}) + \log^2(\frac{13}{4})} (-1+x) + 4x} \left(-4 + e^{2x-2e^x \log(\frac{13}{4}) + \log^2(\frac{13}{4})} (-1 + e^{2x(2x-2x^2)} + e^x(-2x+2x^2)) \log \right)} \frac{16 - 32x + 16x^2 + e^{2e^{2x-4e^x \log(\frac{13}{4}) + 2\log^2(\frac{13}{4})}} (1 - 2x + x^2) + e^{e^{2x-2e^x \log(\frac{13}{4}) + \log^2(\frac{13}{4})}} (8 - 16x + 8x^2)}{}$$

= Exception raised: TypeError

input

```
integrate(((((-2*x^2+2*x)*exp(x)^2+(2*x^2-2*x)*log(13/4)*exp(x)-1)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)-4)*exp(((3*x+3)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)-11*x+12)/((-1*x)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)+4*x-4))/((x^2-2*x+1)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)^2+(8*x^2-16*x+8)*exp(exp(x)^2-2*log(13/4)*exp(x)+log(13/4)^2)+16*x^2-32*x+16),x, algorithm="giac")
```

output

Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{524288,[0,8,12,22,1,1,8]%%}+%%{-7864320,[0,8,12,21,1,1,8]%%}+%%

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1040

Giac [F(-2)]

Exception generated.

$$\int \frac{6 - 12x^3}{(x + 3x^2 + x^4) \log\left(\frac{5x}{1+3x+x^3}\right)} dx = \text{Exception raised: AttributeError}$$

input

integrate((-12*x^3+6)/(x^4+3*x^2+x)/log(5*x/(x^3+3*x+1)),x, algorithm="giac")

output

Exception raised: AttributeError >> type

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1107

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{8-6x+5x^2-x^3-x^4+e^{4e^{x^2}}x(4-5x+x^2+x^3)}{e^{4e^{x^2}}x(-4+x)+4x-x^2}}}{16x^2 - 8x^3 + x^4 + e^{8e^{x^2}}x(16 - 8x + x^2) + e^4} (-32 + 16x + 14x^2 - 8x^3 - 11x^4 + 2x^5 + e^{8e^{x^2}}x(16 - 8x - 11x^2 + 2x^3)) dx = \text{Exception raised: TypeError}$$

input

```
integrate(((2*x^3-11*x^2-8*x+16)*exp(4*exp(x^2)*x)^2+((16*x^4-128*x^3+264*x^2-64*x+128)*exp(x^2)-4*x^4+22*x^3+16*x^2-32*x)*exp(4*exp(x^2)*x)+2*x^5-11*x^4-8*x^3+14*x^2+16*x-32)*exp(((x^3+x^2-5*x+4)*exp(4*exp(x^2)*x)-x^4-x^3+5*x^2-6*x+8)/((-4+x)*exp(4*exp(x^2)*x)-x^2+4*x))/((x^2-8*x+16)*exp(4*exp(x^2)*x)^2+(-2*x^3+16*x^2-32*x)*exp(4*exp(x^2)*x)+x^4-8*x^3+16*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{4194304,[0,6,35]%%}+%%{-257949696,[0,6,34]%%}+%%{7394557952,[0,
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1125

Giac [**F(-2)**]

Exception generated.

$$\int \frac{e^{\frac{1+x \log(x)}{(-25x+5e^x x-5x^2) \log(x)}} (5 - e^x + x + (5 + e^x(-1 - x) + 2x) \log(x) + (x^2 - e^x \log(x)))}{e^{\frac{1+x \log(x)}{(-25x+5e^x x-5x^2) \log(x)}} (125x^2 + 5e^{2x}x^2 + 50x^3 + 5x^4 + e^x(-50x^2 - 10x^3)) \log^2(x) + (-250x^2 - 10e^{2x}x^2 - 10e^{2x}x^2 - 10e^{2x}x^2)} dx$$

= Exception raised: TypeError

input

```
integrate((( -exp(x)*x^2+x^2)*log(x)^2+((-1-x)*exp(x)+5+2*x)*log(x)+x-exp(x)+5)*exp((x*log(x)+1)/(5*exp(x)*x-5*x^2-25*x)/log(x))/((5*exp(x)^2*x^2+(-10*x^3-50*x^2)*exp(x)+5*x^4+50*x^3+125*x^2)*log(x)^2*exp((x*log(x)+1)/(5*exp(x)*x-5*x^2-25*x)/log(x))+(-10*exp(x)^2*x^2+(20*x^3+100*x^2)*exp(x)-10*x^4-100*x^3-250*x^2)*log(x)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sage
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1158

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{4}(15-4e^x+20x-5\log(3))}(-e^x x \log(4) + (-1 + 5x) \log(4))}{x^2} dx$$

= Exception raised: TypeError

input `integrate((-2*x*log(2)*exp(x)+2*(5*x-1)*log(2))/x^2/exp(exp(x)+5/4*log(3)-5*x-15/4),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1392

Giac [F(-2)]

Exception generated.

$$\int \frac{68x^4 - 68x^5 + 17x^6 + e^{-2x^2+2x^3}(68 - 68x + 17x^2) + e^{-\frac{x}{-2+x}}(-128x + 160x^2 - 32x^3) + e^{-x^2+x^3}(-136x^4 - 68x^5 + 17x^6)}{64x^4 - 64x^5 + 16x^6 + e^{-2x^2+2x^3}(64 - 64x + 16x^2) + e^{-x^2+x^3}(-136x^4 - 68x^5 + 17x^6)}$$

= Exception raised: TypeError

input `integrate(((17*x^2-68*x+68)*exp(x^3-x^2)^2+((48*x^4-224*x^3+320*x^2-128*x-32)*exp(-x/(-2+x))-34*x^4+136*x^3-136*x^2)*exp(x^3-x^2)+(-32*x^3+160*x^2-128*x)*exp(-x/(-2+x))+17*x^6-68*x^5+68*x^4)/((16*x^2-64*x+64)*exp(x^3-x^2)^2+(-32*x^4+128*x^3-128*x^2)*exp(x^3-x^2)+16*x^6-64*x^5+64*x^4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{864,[0,15]%%}+%%{-10368,[0,14]%%}+%%{52992,[0,13]%%}+
%%{-1511
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1400

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2}{100x+10e^{1+e^{e^x}}x}} \left(-10 - 1500x - 15e^{2+2e^{e^x}}x + e^{1+e^{e^x}}(-1 - 300x - e^{e^x+x}) \right)}{500x^5 + 100e^{1+e^{e^x}}x^5 + 5e^{2+2e^{e^x}}x^5} dx$$

= Exception raised: TypeError

input

```
integrate((-15*x*exp(exp(exp(x))+1)^2+(-x*exp(x)*exp(exp(x))-300*x-1)*exp(
exp(exp(x))+1)-1500*x-10)*exp(1/(10*x*exp(exp(exp(x))+1)+100*x))^2/(5*x^5*
exp(exp(exp(x))+1)^2+100*x^5*exp(exp(exp(x))+1)+500*x^5),x, algorithm="gia
c")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{468750000000,[0,8,6,6,15,8]%%}+%%{3125000000,[0,8,6,6,
14,8]%%}
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1505

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4+3x^2-x^3}{12x^2+2e^{2x}x^2}}(-48-6x^3+e^{2x}(-8-8x-7x^3+2x^4))}{72x^3+24e^{2x}x^3+2e^{4x}x^3} dx$$

= Exception raised: TypeError

input `integrate(((2*x^4-7*x^3-8*x-8)*exp(x)^2-6*x^3-48)*exp((-x^3+3*x^2+4)/(2*exp(x)^2*x^2+12*x^2))/(2*x^3*exp(x)^4+24*exp(x)^2*x^3+72*x^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-1152,[1,23]%%}+%%{-18432,[1,22]%%}+%%{-117792,[1,21]%%}+%%{-39`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1580

Giac [F(-2)]

Exception generated.

$$\int \frac{24e^{\frac{1}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}}{64+16e^{\frac{1}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}x+e^{\frac{2}{5}(e^{32}-2e^{32}\log(2)+e^{32}\log^2(2))}x^2} dx$$

= Exception raised: NotImplementedError

input `integrate(-24*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2)/(x^2*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2)^2+16*x*exp(1/5*exp(16)^2*log(2)^2-2/5*exp(16)^2*log(2)+1/5*exp(16)^2)+64),x, algorithm="giac")`

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: -24*
exp(exp(32)*ln(2)^2/5-exp(32)*ln(2)*2/5+exp(32)/5)*2*1/16/sqrt(-exp(1/5*(e
xp(32)*ln(2)^2-2*exp(32)*ln(2)+exp(32)))^2+exp(1/5*(2*exp(32)*ln(2)^2-4*ex
p(32)*ln(2)+2*exp(3
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1590

Giac [**F(-2)**]

Exception generated.

$$\int \frac{-54x - 6e^6x + 162x^2 - 108x^3 + e^3(-36x + 54x^2) + 2^{60/x}x^{60/x}(2x - 6x^2 + 4x^3) + 2^{20/x}x^{20/x}(54x - 162x^2 + 108x^3)}{x^2} dx$$

input

```
integrate(((4*x^3-6*x^2+2*x)*exp(20*log(2*x)/x)^3+((40*x-40)*exp(3)*log(2*
x)+(6*x^2-44*x+40)*exp(3)-36*x^3+54*x^2-18*x)*exp(20*log(2*x)/x)^2+((40*ex
p(3)^2+(-120*x+120)*exp(3))*log(2*x)+(2*x-40)*exp(3)^2+(-36*x^2+144*x-120)
*exp(3)+108*x^3-162*x^2+54*x)*exp(20*log(2*x)/x)-6*x*exp(3)^2+(54*x^2-36*x
)*exp(3)-108*x^3+162*x^2-54*x)/(exp(20*log(2*x)/x)^3-9*exp(20*log(2*x)/x)^
2+27*exp(20*log(2*x)/x)-27),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{265420800000,[1,10,15,0]%%}+%%{-3981312000000,[1,10,14,0
]%%}+%%
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1628

Giac [F(-2)]

Exception generated.

$$\int \frac{2e^{16} + 2e^{2e^x} + 8e^{12x} + 2x^2 + 4x^3 + 2x^4 + e^{e^x}(-4e^8 - 4x - 8e^4x - 4x^2) + e^8(4x + 12x^2) + e^4(8x^2 + 8x)}{\dots} dx$$

= Exception raised: TypeError

input

```
integrate(((2*x*exp(x)*log(16*x^2)*exp(exp(x))^2+((-2*x*exp(4)^2-4*x^2*exp(4)-2*x^3-2*x^2)*exp(x)-4*x*exp(4)-4*x^2-2*x)*log(16*x^2)*exp(exp(x))+(4*x*exp(4)^3+(12*x^2+2*x)*exp(4)^2+(12*x^3+8*x^2)*exp(4)+4*x^4+6*x^3+2*x^2)*log(16*x^2))*log(1/4*log(16*x^2))+2*exp(exp(x))^2+(-4*exp(4)^2-8*x*exp(4)-4*x^2-4*x)*exp(exp(x))+2*exp(4)^4+8*x*exp(4)^3+(12*x^2+4*x)*exp(4)^2+(8*x^3+8*x^2)*exp(4)+2*x^4+4*x^3+2*x^2)/x/log(16*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:ln of unsigned or minus infinity Error: Bad Argument Value
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2383

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-4x/9}(e^{4x/9}(e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x) + (324e^5 - 324x) \log^3(\log(x)) + (e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x))}{(e^{25x} - 5e^{20x^2} + 10e^{15x^3} - 10e^{10x^4} + 5e^5x^5 - x^6) \log(x)} dx$$

input

```
integrate((((-36*x*exp(5)+36*x^2+324*x)*log(x)*log(log(x))^4+(324*exp(5)-324*x)*log(log(x))^3+(x*exp(5)^5-5*x^2*exp(5)^4+10*x^3*exp(5)^3-10*x^4*exp(5)^2+5*x^5*exp(5)-x^6)*exp(1/9*x)^4*log(x)))/(x*exp(5)^5-5*x^2*exp(5)^4+10*x^3*exp(5)^3-10*x^4*exp(5)^2+5*x^5*exp(5)-x^6)/exp(1/9*x)^4/log(x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Polynomial exponent overflow. Error
: Bad Argument Value
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2388

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4e^2}{\log\left(\frac{27+12x}{x}\right)}} \left(36e^{e^2} \log(x) + (9+4x) \log^2\left(\frac{27+12x}{x}\right)\right)}{(9x+4x^2) \log^2\left(\frac{27+12x}{x}\right)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((9*exp(2*log(2)+exp(2))*log(x)+(4*x+9)*log((12*x+27)/x)^2)*exp(e
xp(2*log(2)+exp(2))/log((12*x+27)/x))/(4*x^2+9*x)/log((12*x+27)/x)^2,x, al
gorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{186624,[0,0,1,3]%%}+%%{419904,[0,0,0,3]%%} / %%{186624
,[0,0,2,3
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2555

Giac [F(-2)]

Exception generated.

$$\int \frac{20e^{2x} + 40e^x x + 20x^2 + e^{\frac{9x+8x^3+e^x(4+8x^2)}{10e^x+10x}} (32e^{2x} x + 32x^3 + e^x(10 - 10x + 64x^2))}{5e^{2x} + 10e^x x + 5x^2} dx$$

= Exception raised: TypeError

input

```
integrate(((32*x*exp(x)^2+(64*x^2-10*x+10)*exp(x)+32*x^3)*exp(((8*x^2+4)*exp(x)+8*x^3+9*x)/(10*exp(x)+10*x))+20*exp(x)^2+40*exp(x)*x+20*x^2)/(5*exp(x)^2+10*exp(x)*x+5*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-80000000,[1,12]%%}+%%{220000000,[1,11]%%}+%%{-80000000,[1,10]%
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2601

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + 2x + e^{-2+e^4}(-20 + 40x) + e^{-4+2e^4}(-158 + 313x + 4x^2) + e^{-6+3e^4}(-580 + 1130x + 40x^2) + e^{-8+4e^4}(841x + 2x^2)}{x + 20e^{-2+e^4}x + e^{-4+2e^4}(158x + 2x^2) + e^{-6+3e^4}(580x + 20x^2) + e^{-8+4e^4}(841x + 2x^2)}$$

= Exception raised: NotImplementedError

input

```
integrate(((2*x^3+115*x^2+1595*x-841)*exp(exp(4)-2)^4+(40*x^2+1130*x-580)*exp(exp(4)-2)^3+(4*x^2+313*x-158)*exp(exp(4)-2)^2+(40*x-20)*exp(exp(4)-2)+2*x-1)/((x^3+58*x^2+841*x)*exp(exp(4)-2)^4+(20*x^2+580*x)*exp(exp(4)-2)^3+(2*x^2+158*x)*exp(exp(4)-2)^2+20*x*exp(exp(4)-2)+x),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: -ln(
abs(sageVARx))+(-58*exp(4*exp(4)-8)-20*exp(3*exp(4)-6)-2*exp(2*exp(4)-4))*
1/2/sqrt(-exp(2*exp(4)-4)^2-20*exp(2*exp(4)-4)*exp(3*exp(4)-6)+100*exp(2*
exp(4)-4)*exp(4*exp(
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2633

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4-4x-3x^2+2x^3+x^4}{x-2e^{8x}x+e^{2e^8x}x}} (4+3x^2-4x^3-3x^4+e^{e^8x}(-4-3x^2+4x^3+3x^4+e^8(-8x+8x^2+6x^3-4x^4-2x^5))}{-x^2+3e^{e^8x}x^2-3e^{2e^8x}x^2+e^{3e^8x}x^2}$$

= Exception raised: TypeError

input

```
integrate(((((-2*x^5-4*x^4+6*x^3+8*x^2-8*x)*exp(4)^2+3*x^4+4*x^3-3*x^2-4)*
exp(x*exp(4)^2)-3*x^4-4*x^3+3*x^2+4)*exp((x^4+2*x^3-3*x^2-4*x+4)/(x*exp(x*
exp(4)^2)^2-2*x*exp(x*exp(4)^2)+x))/(x^2*exp(x*exp(4)^2)^3-3*x^2*exp(x*exp(
4)^2)^2+3*x^2*exp(x*exp(4)^2)-x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-96,[2,24,5,8]%%}+%%{-704,[2,23,5,8]%%}+%%{288,[2,23,4
,8]%%}+%
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2912

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{1+x-3x^3-6x^4-3x^5}{5e^x x^2-5x^3}} (3x + 2x^2 + 6x^5 + 6x^6 + e^x(-2 - 2x - x^2 - 3x^3 - 9x^4 - 3x^5 + 3x^6)) \frac{dx}{5e^{2x}x^3 - 10e^x x^4 + 5x^5}$$

= Exception raised: TypeError

input

```
integrate(((3*x^6-3*x^5-9*x^4-3*x^3-x^2-2*x-2)*exp(x)+6*x^6+6*x^5+2*x^2+3*x)*exp((-3*x^5-6*x^4-3*x^3+x+1)/(5*exp(x)*x^2-5*x^3))/(5*exp(x)^2*x^3-10*exp(x)*x^4+5*x^5),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{6075, [1,36]%%}+%%{6075, [1,35]%%}+%%{-66825, [1,34]%%}+%%{-1154
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{3-e^x-5x+x^2}{x}} (6 - 5x - x^2 - x^3 + e^x(-2 + x + x^2) + (-12 + e^x(4 - 4x) + 4x^2) \log(x^2)) \frac{dx}{4x^2 + 4x^3 + x^4 + (-16x^2 - 8x^3) \log(x^2) + 16x^2 \log^2(x^2)}$$

= Exception raised: TypeError

input

```
integrate((((4-4*x)*exp(x)+4*x^2-12)*log(x^2)+(x^2+x-2)*exp(x)-x^3-x^2-5*x+6)*exp((-exp(x)+x^2-5*x+3)/x)/(16*x^2*log(x^2)^2+(-8*x^3-16*x^2)*log(x^2)+x^4+4*x^3+4*x^2),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-4,[0,1,9]%%}+%%{-68,[0,1,8]%%}+%%{-320,[0,1,7]%%}+%%
{256,[0,1
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 96

Giac [F(-2)]

Exception generated.

$$\int \frac{-1000 - 5000x - 6200x^2 - 2900x^3 + 256x^3 + 448x^4 + 288x^5 + 144x^6 + 104x^7 + 48x^8 + 8x^9 + (-192x^3 - 240x^4 - 96x^5 - 60x^6 - 48x^7 - 12x^8 - 12x^9)}{256x^3 + 448x^4 + 288x^5 + 144x^6 + 104x^7 + 48x^8 + 8x^9 + (-192x^3 - 240x^4 - 96x^5 - 60x^6 - 48x^7 - 12x^8 - 12x^9)} dx$$

= Exception raised: TypeError

input

```
integrate(((((-50*x^4-50*x^2-200*x)*log(x/(x^3+x+4)))^2+((100*x^4+100*x^2+400
*x)*log(5)-300*x^5-300*x^4-350*x^3-1600*x^2-1850*x-200)*log(x/(x^3+x+4)))+(
-50*x^4-50*x^2-200*x)*log(5)^2+(300*x^5+300*x^4+350*x^3+1600*x^2+1850*x+20
0)*log(5)-400*x^6-1000*x^5-1000*x^4-2900*x^3-6200*x^2-5000*x-1000)/((x^6+x
^4+4*x^3)*log(x/(x^3+x+4))^3+((-3*x^6-3*x^4-12*x^3)*log(5)+6*x^7+12*x^6+6*
x^5+36*x^4+48*x^3)*log(x/(x^3+x+4))^2+((3*x^6+3*x^4+12*x^3)*log(5)^2+(-12*
x^7-24*x^6-12*x^5-72*x^4-96*x^3)*log(5)+12*x^8+48*x^7+60*x^6+96*x^5+240*x^
4+192*x^3)*log(x/(x^3+x+4))+(-x^6-x^4-4*x^3)*log(5)^3+(6*x^7+12*x^6+6*x^5+
36*x^4+48*x^3)*log(5)^2+(-12*x^8-48*x^7-60*x^6-96*x^5-240*x^4-192*x^3)*log
(5)+8*x^9+48*x^8+104*x^7+144*x^6+288*x^5+448*x^4+256*x^3),x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 124

Giac [F(-2)]

Exception generated.

$$\int \frac{(-32 + 2x^2 - 16x^3 + 24x^4) \log\left(\frac{-16-x^2+4x^3-4x^4}{x}\right) + (-16 - x^2 + 4x^3 - 4x^4) \log^2\left(\frac{-16-x^2+4x^3-4x^4}{x}\right)}{64x^2 + 4x^4 - 16x^5 + 16x^6} dx$$

= Exception raised: TypeError

input

```
integrate((( -4*x^4+4*x^3-x^2-16)*log((-4*x^4+4*x^3-x^2-16)/x)^2+(24*x^4-16*x^3+2*x^2-32)*log((-4*x^4+4*x^3-x^2-16)/x))/(16*x^6-16*x^5+4*x^4+64*x^2),
x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]root error [1.0,infinity,infinity,inf
inity,inf
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 141

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{5+x} \frac{e^{5+x} (244-40x+4x^2)}{36x+9e^{2x}x+36x^2} (-976 - 976x + 992x^2 - 144x^3 + 16x^4 + e^{2x}(-244 - 244x + 44x^2 - 4x^3))}{144x^2 + 9e^{4x}x^2 + 288x^3 + 144x^4 + e^{2x}(72x^2 + 72x^3)} dx$$

= Exception raised: TypeError

input

```
integrate((( -4*x^3+44*x^2-244*x-244)*exp(x)^2+16*x^4-144*x^3+992*x^2-976*x
-976)*exp(5+x)*exp((4*x^2-40*x+244)*exp(5+x)/(9*x*exp(x)^2+36*x^2+36*x))/(
9*x^2*exp(x)^4+(72*x^3+72*x^2)*exp(x)^2+144*x^4+288*x^3+144*x^2),x, algori
thm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%>{3962711310336, [0,19,36,2]%%}+%%{-974826982342656, [0,19,3
5,2]%%}+
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 180

Giac [F(-2)]

Exception generated.

$$\int \frac{(-18x + 2x^3) \log(5) + (-18 - 6x + (-6x^2 - 2x^3) \log(5)) \log\left(\frac{3+x}{1}\right)}{(-81 + 81x - 27x^2 + 3x^3 + (-27x^2 + 27x^3 - 9x^4 + x^5) \log(5)) \log\left(\frac{3+x^2 \log(5)}{\log(5)}\right) \log\left(\frac{\log\left(\frac{3+x^2 \log(5)}{\log(5)}\right)}{9-6x+x^2}\right)} + \dots$$

= Exception raised: TypeError

input

```
integrate(((((-x^3+3*x^2)*log(5)-3*x+9)*log((x^2*log(5)+3)/log(5))*log(log(
(x^2*log(5)+3)/log(5))/(x^2-6*x+9))*log(log(log((x^2*log(5)+3)/log(5))/(x^
2-6*x+9))))+((-6*x^3+18*x^2)*log(5)-18*x+54)*log((x^2*log(5)+3)/log(5))*log
(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9))+((-2*x^3-6*x^2)*log(5)-6*x-18)*lo
g((x^2*log(5)+3)/log(5))+(2*x^3-18*x)*log(5))/(((x^3-3*x^2)*log(5)+3*x-9)*
log((x^2*log(5)+3)/log(5))*log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9))*log
(log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9)))^2+((-2*x^4+12*x^3-18*x^2)*lo
g(5)-6*x^2+36*x-54)*log((x^2*log(5)+3)/log(5))*log(log((x^2*log(5)+3)/log(
5))/(x^2-6*x+9))*log(log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9))))+(x^5-9*
x^4+27*x^3-27*x^2)*log(5)+3*x^3-27*x^2+81*x-81)*log((x^2*log(5)+3)/log(5))
*log(log((x^2*log(5)+3)/log(5))/(x^2-6*x+9))),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument ValueError index.cc index_gcd Error: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 188

Giac [F(-2)]

Exception generated.

$$\int \frac{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x) \log(4x^2) + \log^2(x) \log^2(4x^2) + e^{\frac{4}{-2+e^4+\log(4x^2)}} (4 - 4e^4 + e^8)}{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((1-log(x))*log(4*x^2)^2+((-2*exp(4)+4)*log(x)+2*exp(4)-4)*log(4*x^2)+(-exp(4)^2+4*exp(4)+4)*log(x)+exp(4)^2-4*exp(4)+4)*exp(4/(log(4*x^2)+exp(4)-2))+log(x)^2*log(4*x^2)^2+(2*exp(4)-4)*log(x)^2*log(4*x^2)+(exp(4)^2-4*exp(4)+4)*log(x)^2)/(log(x)^2*log(4*x^2)^2+(2*exp(4)-4)*log(x)^2*log(4*x^2)+(exp(4)^2-4*exp(4)+4)*log(x)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-4194304,[1,7,3,0,1]%%}+%%{-4194304,[1,7,2,1,1]%%}+%%{25165824,
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 383

Giac [F(-2)]

Exception generated.

$$\int \frac{9e^{2e} + 15e^e x^2 + 2x^4}{9e^{2e} + 6e^e x^2 + x^4} dx = \text{Exception raised: NotImplementedError}$$

input

```
integrate((9*exp(exp(1))^2+15*x^2*exp(exp(1))+2*x^4)/(9*exp(exp(1))^2+6*x^2*exp(exp(1))+x^4),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: (((9
*exp(2*exp(1)))^(1/4))^3*(sqrt((1+sin((-i)*ln(i*exp(exp(1))/exp(2*exp(1)/2
)+sqrt(1-exp(exp(1))/exp(2*exp(1)/2)*exp(exp(1))/exp(2*exp(1)/2))))/2))^3
*sqrt(-6*exp(exp(1))
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 384

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5x}{-3+4e^{8-2x}x^4}} (15 + e^{8-2x} (60x^4 - 40x^5))}{9 - 24e^{8-2x}x^4 + 16e^{16-4x}x^8} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((( -40*x^5+60*x^4)*exp(-x+4)^2+15)*exp(-5*x/(4*x^4*exp(-x+4)^2-3)
)/(16*x^8*exp(-x+4)^4-24*x^4*exp(-x+4)^2+9), x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{2388
7872000, [0,38,0]%%}%+%%{-668860416000, [0,37,0]%%}%+%%{8695185408000, [0,3
6,0]%%}%+%%
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x^2}{9+e^{2e^{-x+x^2}\log(x)}x-6x^2+x^4+e^{e^{-x+x^2}\log(x)}x(6-2x^2)}} \left(e^{x-x^2\log(x)}(6x+2x^3) + e^{e^{-x+x^2}\log(x)}x \left(2e^{x-x^2\log(x)}x - 2x \right) \right)}{e^{x+3e^{-x+x^2}\log(x)}x-x^2\log(x) + e^{x+2e^{-x+x^2}\log(x)}x-x^2\log(x) (9-3x^2) + e^{x+e^{-x+x^2}\log(x)}x-x^2\log(x) (27-18x^2+3x^4)}$$

= Exception raised: AttributeError

```
input integrate(((2*x*exp(-x^2*log(x)+x)-4*x^4*log(x)-2*x^4+2*x^3-2*x^2)*exp(x/exp(-x^2*log(x)+x)))+(2*x^3+6*x)*exp(-x^2*log(x)+x))*exp(x^2/(exp(x/exp(-x^2*log(x)+x))^2+(-2*x^2+6)*exp(x/exp(-x^2*log(x)+x))+x^4-6*x^2+9))/(exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x))^3+(-3*x^2+9)*exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x))^2+(3*x^4-18*x^2+27)*exp(-x^2*log(x)+x)*exp(x/exp(-x^2*log(x)+x)))+(-x^6+9*x^4-27*x^2+27)*exp(-x^2*log(x)+x)),x, algorithm="giac")
```

```
output Exception raised: AttributeError >> type
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 640

Giac [F(-2)]

Exception generated.

$$\int \frac{-4x - 4e^x x^2 - 8x^3 + (4 + 4e^x x + 8x^2) \log(x) + (e^x(2 - 2x) + 2x^2 - 2x^3 + (2 - 2x) \log(x)) \log(e^x + x)}{(-e^x x^2 - x^4 + (e^x x - x^2 + x^3) \log(x) + x \log^2(x)) \log(e^x + x^2 + \log(x)) \log(\log(e^x + x^2 + \log(x)))}$$

= Exception raised: TypeError

```
input integrate((((2-2*x)*log(x)+(2-2*x)*exp(x)-2*x^3+2*x^2)*log(log(x)+x^2+exp(x))*log(log(log(x)+x^2+exp(x)))+(4*exp(x)*x+8*x^2+4)*log(x)-4*exp(x)*x^2-8*x^3-4*x)/(x*log(x)^2+(exp(x)*x+x^3-x^2)*log(x)-exp(x)*x^2-x^4)/log(log(x)+x^2+exp(x))/log(log(log(x)+x^2+exp(x))),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Sign error %%%{ln(w),0%%}%Sign erro
r %%%{ln(w),0%%}%Done
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 683

Giac [F(-2)]

Exception generated.

$$\int \frac{(-3x + 6x^2 - x^3 + 2x^4 + (-5x^3 + 10x^4) \log(4)) \log(-3 - x^2 - 5x^2 \log(4)) + \log(5 - x + x^2) (-10x^2 - 15x + 8x^2 - x^3 + x^4 + \dots)}{(15 - 3x + 8x^2 - x^3 + x^4 + \dots)}$$

= Exception raised: TypeError

input

```
integrate((((2*(5*x^4-5*x^3+25*x^2)*log(2)+x^4-x^3+8*x^2-3*x+15)*log(-10*x
^2*log(2)-x^2-3)+2*(-10*x^4+10*x^3-50*x^2)*log(2)-2*x^4+2*x^3-10*x^2)*log(
x^2-x+5)+(2*(10*x^4-5*x^3)*log(2)+2*x^4-x^3+6*x^2-3*x)*log(-10*x^2*log(2)-
x^2-3)))/(2*(5*x^4-5*x^3+25*x^2)*log(2)+x^4-x^3+8*x^2-3*x+15)/log(-10*x^2*log(2)-x^2-3)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 880

Giac [F(-2)]

Exception generated.

$$\int \frac{-4e^{10x} - 80e^{8x}x - 640e^{6x}x^2 - 2560e^{4x}x^3 - 5120e^{2x}x^4 - 4096x^5 + e^{\frac{65536x^2+25e^{8x}x^2+400e^{6x}x^3-40960x^4+6400x^6+e^4}{e^{8x+16e^{6x}x+96e^{4x}x^2}}}}{e^{8x+16e^{6x}x+96e^{4x}x^2}}$$

= Exception raised: TypeError

input

```
integrate((((150*x^3+6*x)*exp(x)^10+(3000*x^4+120*x^2)*exp(x)^8+(24000*x^5+30720*x^4-14400*x^3)*exp(x)^6+(96000*x^6+245760*x^5-119040*x^4)*exp(x)^4+(192000*x^7+491520*x^6-238080*x^5-1572864*x^4+393216*x^3)*exp(x)^2+153600*x^8+6144*x^6-1572864*x^4)*exp((25*x^2*exp(x)^8+400*x^3*exp(x)^6+(2400*x^4-2560*x^2)*exp(x)^4+(6400*x^5-20480*x^3)*exp(x)^2+6400*x^6-40960*x^4+65536*x^2)/(exp(x)^8+16*x*exp(x)^6+96*x^2*exp(x)^4+256*exp(x)^2*x^3+256*x^4))-4*exp(x)^10-80*x*exp(x)^8-640*x^2*exp(x)^6-2560*x^3*exp(x)^4-5120*exp(x)^2*x^4-4096*x^5)/(3*exp(x)^10+60*x*exp(x)^8+480*x^2*exp(x)^6+1920*x^3*exp(x)^4+3840*exp(x)^2*x^4+3072*x^5),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-289480223093290488558927462521719769633174961664101410098643960019
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1163

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{2(-e^6+x+4e^3x-4x^2+(2+e^6-x-4e^3x+4x^2+(e^6x-x^2-4e^3x^2+4x^3)\log(4))\log(x))}{-1+(1+x\log(4))\log(x)}} \frac{(-4 - 2x - 8e^3x + 16x^2 + (4x + 16e^3x - 32x + (-2x -$$

= Exception raised: TypeError

input

```
integrate(((4*(-8*x^3*exp(3)+16*x^4-2*x^3)*log(2)^2+2*(-16*x^2*exp(3)+32*x^3-4*x^2-4*x)*log(2)-8*x*exp(3)+16*x^2-2*x)*log(x)^2+(2*(16*x^2*exp(3)-32*x^3+4*x^2)*log(2)+16*x*exp(3)-32*x^2+4*x)*log(x)-8*x*exp(3)+16*x^2-2*x-4)*exp(((2*(x*exp(3)^2-4*x^2*exp(3)+4*x^3-x^2)*log(2)+exp(3)^2-4*x*exp(3)+4*x^2-x+2)*log(x)-exp(3)^2+4*x*exp(3)-4*x^2+x)/((2*x*log(2)+1)*log(x)-1))^2/(4*x^3*log(2)^2+4*x^2*log(2)+x)*log(x)^2+(-4*x^2*log(2)-2*x)*log(x)+x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{4194304,[0,20,16,0,1]%%}+%%{46137344,[0,19,15,0,1]%%}+%%{229638
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1209

Giac [**F(-2)**]

Exception generated.

$$\int e^{-x+2e^{-x}(-x+e^x(x+781250x^2\log(4)))}(-2+2x+e^x(2+3125000x\log(4))) dx$$

= Exception raised: TypeError

input

```
integrate(((6250000*x*log(2)+2)*exp(x)+2*x-2)*exp(((1562500*x^2*log(2)+x)*exp(x)-x)/exp(x))^2/exp(x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1407

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-262144(4-x)}(-16 + (16 + 4194304x) \log(x))}{\log^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(((4194304*x+16)*log(x)-16)/log(x)^2/exp(-262144*x+1048576),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Polynomial exponent overflow. Error : Bad Argument Value`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1774

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{144x^2 - e^{4x^2}x^2 - 288x^3 - 2e^{2x^2}x^3 + 143x^4 + (288x - 288x^2) \log(x) + 144 \log^2(x)}{9e^{4x^2} + 18e^{2x^2}x + 9x^2}} (288x^2 - 2e^{6x^2}x^2 - 288x^3 - 6e^{4x^2}x^3 - 288x^4 + 288x^5) dx = \text{Exception raised: TypeError}$$

input `integrate(((((-1152*x^2*exp(x^2)^2-288*x)*log(x)^2+((2304*x^4-2304*x^3-576*x^2+288*x+288)*exp(x^2)^2-288*x^2+288*x)*log(x)-2*x^2*exp(x^2)^6-6*x^3*exp(x^2)^4+(-1152*x^6+2304*x^5-582*x^4-864*x^3+288*x)*exp(x^2)^2+286*x^5-288*x^4-288*x^3+288*x^2)*exp((144*log(x)^2+(-288*x^2+288*x)*log(x)-x^2*exp(x^2)^4-2*x^3*exp(x^2)^2+143*x^4-288*x^3+144*x^2)/(9*exp(x^2)^4+18*x*exp(x^2)^2+9*x^2)))/(9*x*exp(x^2)^6+27*x^2*exp(x^2)^4+27*x^3*exp(x^2)^2+9*x^4),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-339738624, [2,9,18]%%}+%%{339738624, [2,9,16]%%}+%%{-12
7401984, [
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2070

Giac [F(-2)]

Exception generated.

$$\int \frac{36x^6 - 36x^7 + 8x^8 + e^e(-64 + 180x^6 - 144x^7 + 4x^8 + 8x^9) + e^{2e}(-160 - 40x + 225x^6 - 135x^7 - 31x^8)}{32x^5 + e^e(160x^5 + 32x^6) + e^{2e}(200x^5 + 80x^6 + 8x^7)} dx$$

= Exception raised: NotImplementedError

input

```
integrate(((2*x^10+11*x^9-31*x^8-135*x^7+225*x^6-40*x-160)*exp(exp(1))^2+(
8*x^9+4*x^8-144*x^7+180*x^6-64)*exp(exp(1))+8*x^8-36*x^7+36*x^6)/((8*x^7+8
0*x^6+200*x^5)*exp(exp(1))^2+(32*x^6+160*x^5)*exp(exp(1))+32*x^5),x, algor
ithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: 1/8*
((1/2*sageVARx^4*exp(2*exp(1))^4-3*sageVARx^3*exp(2*exp(1))^4+9/2*sageVARx
^2*exp(2*exp(1))^4)/exp(2*exp(1))^4+((-375000*exp(2*exp(1))^5-900000*exp(2
*exp(1))^4*exp(exp(
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2113

Giac [F(-2)]

Exception generated.

$$\int \frac{8 - 2x + 6x^2 + (4 + x - x^2) \log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right) \log\left(\log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right)\right)}{(-4x^2 - x^3 + x^4) \log\left(\frac{256+256x-160x^2-176x^3+49x^4+44x^5-10x^6-4x^7+x^8}{128x^2}\right)} dx$$

= Exception raised: TypeError

input

```
integrate((-x^2+x+4)*log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2)*log(log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2))+6*x^2-2*x+8)/(x^4-x^3-4*x^2)/log(1/128*(x^8-4*x^7-10*x^6+44*x^5+49*x^4-176*x^3-160*x^2+256*x+256)/x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:simplify: Polynomials do not have the same dimension Error: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2379

Giac [F(-2)]

Exception generated.

$$\int \frac{2e^x + e^{1+e^{-x}}(x - x^2) \log(x) \log(125e^2 \log^2(x))}{e^{1+x+e^{-x}}x \log(x) \log(125e^2 \log^2(x)) + e^xx \log(x) \log(125e^2 \log^2(x)) \log(\log(125e^2 \log^2(x)))} dx$$

= Exception raised: TypeError

input

```
integrate((-x^2+x)*exp(1)*log(x)*exp(x/exp(x))*log(125*exp(2)*log(x)^2)+2*exp(x))/(x*exp(x)*log(x)*log(125*exp(2)*log(x)^2)*log(log(125*exp(2)*log(x)^2))+x*exp(1)*exp(x)*log(x)*exp(x/exp(x))*log(125*exp(2)*log(x)^2)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:ln of unsigned or minus infinity Er
ror: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2593

Giac [F(-2)]

Exception generated.

$$\int \frac{2e^{e^4+e^e} + e^{e^4}(-20 - 8x)}{300x^2 + 120x^3 + 12x^4 + e^{2e^e}(75 + 30x + 3x^2) + e^{e^e}(-300x - 120x^2 - 12x^3)} dx$$

= Exception raised: NotImplementedError

input

```
integrate((2*exp(exp(4))*exp(exp(exp(1)))+(-8*x-20)*exp(exp(4)))/((3*x^2+3
0*x+75)*exp(exp(exp(1)))^2+(-12*x^3-120*x^2-300*x)*exp(exp(exp(1)))+12*x^4
+120*x^3+300*x^2),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: -2/3
*((-2*exp(2*exp(exp(1)))*exp(exp(4))-20*exp(exp(exp(1)))*exp(exp(4))+2*exp
(exp(exp(1)))*exp(exp(4)+exp(exp(1)))+20*exp(exp(4)+exp(exp(1))))/(exp(2*ex
p(exp(1)))^2+40*ex
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2706

Giac [F(-2)]

Exception generated.

$$\int \frac{4e^{e^{\log^2\left(\frac{9+6x+x^2}{e^6}\right)} + \log^2\left(\frac{9+6x+x^2}{e^6}\right)} \log\left(\frac{9+6x+x^2}{e^6}\right)}{\left(12+4x+e^{e^{\log^2\left(\frac{9+6x+x^2}{e^6}\right)}}(3+x)\right) \log\left(4+e^{e^{\log^2\left(\frac{9+6x+x^2}{e^6}\right)}}\right)} dx$$

= Exception raised: TypeError

input

```
integrate(4*log((x^2+6*x+9)/exp(3)^2)*exp(log((x^2+6*x+9)/exp(3)^2)^2)*exp
(exp(log((x^2+6*x+9)/exp(3)^2)^2))/((3+x)*exp(exp(log((x^2+6*x+9)/exp(3)^2)
)^2))+4*x+12)/log(exp(exp(log((x^2+6*x+9)/exp(3)^2)^2))+4),x, algorithm="g
iac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Taylor sign with unsigned limit Err
or: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2795

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{8x^2}{e^{2x}-2e^x+x^2}}(e^{3x}(1-x)-x^3+x^4+e^{2x}(-3x+3x^2)+e^x(3x^2-3x^3)+(e^x(16x^3-16x^4)+e^x(-16x^2$$

$$-e^{3x}x^2+3e^{2x}x^3-3e^xx^4+x^5+(e^{3x}x-3e^{2x}x^2+3e^xx^3-x^4)\log(x))}{-e^{3x}x^2+3e^{2x}x^3-3e^xx^4+x^5+(e^{3x}x-3e^{2x}x^2+3e^xx^3-x^4)\log(x)}$$

= Exception raised: TypeError

input

```
integrate((((16*x^3-16*x^2)*exp(x)*log(x)+(-16*x^4+16*x^3)*exp(x))*log(log
(x)-x)+(1-x)*exp(x)^3+(3*x^2-3*x)*exp(x)^2+(-3*x^3+3*x^2)*exp(x)+x^4-x^3)/
((x*exp(x)^3-3*exp(x)^2*x^2+3*exp(x)*x^3-x^4)*log(x)-x^2*exp(x)^3+3*exp(x)
^2*x^3-3*exp(x)*x^4+x^5)/exp(8*x^2/(exp(x)^2-2*exp(x)*x+x^2)),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-16,[1,23,7]%%}+%%{64,[1,23,6]%%}+%%{-96,[1,23,5]%%}+
%%{64,[1
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2841

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(18e^{\frac{1}{x}+2x}x^2 + 180e^{\frac{1}{x}}x^3 + e^{\frac{1}{x}+x}(90x^2 + 36x^3)\right) \log\left(\frac{1}{3}(e^x + x^2)\right) + \left(-45e^{\frac{1}{x}}x^2 + e^{\frac{1}{x}+2x}(-9 + 9x^2) + e^{\frac{1}{x}+x}\right)}{e^xx^2 + x^4}$$

= Exception raised: TypeError

input

```
integrate((((9*x^2-9)*exp(1/x)*exp(x)^2+(9*x^4-9*x^2-45)*exp(1/x)*exp(x)-4
5*x^2*exp(1/x))*log(1/3*x^2+1/3*exp(x))^2+(18*x^2*exp(1/x)*exp(x)^2+(36*x^
3+90*x^2)*exp(1/x)*exp(x)+180*x^3*exp(1/x))*log(1/3*x^2+1/3*exp(x)))/(exp(
x)*x^2+x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,14]%%}+%%{4,[0,13]%%}+%%{-3,[0,12]%%}+%%{-4,[0
,11]%%}+
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2858

Giac [F(-2)]

Exception generated.

$$\int \frac{164 - 36e^4 + 32x + e^x(48 + 4x - 2)}{-256 + e^{2x}(-4 + e^4 - x) - 192x - 48x^2 - 4x^3 + e^4(64 + 32x + 4x^2) + e^x(-64 - 32x - 4x^2 + e^4(164 - 36e^4 + 32x + e^x(48 + 4x - 2)))} dx$$

= Exception raised: TypeError

input

```
integrate(((4*-exp(4)+4*x+16)*log(4-exp(4)+x)+((2*x-12)*exp(4)-2*x^2+4*x+4
8)*exp(x)-36*exp(4)+32*x+164)/((4*exp(4)-16-4*x)*log(4-exp(4)+x)^2+((4*exp
(4)-16-4*x)*exp(x)+(8*x+32)*exp(4)-8*x^2-64*x-128)*log(4-exp(4)+x)+(exp(4)
-x-4)*exp(x)^2+((4*x+16)*exp(4)-4*x^2-32*x-64)*exp(x)+(4*x^2+32*x+64)*exp(
4)-4*x^3-48*x^2-192*x-256),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Not invertible Error: Bad Argument
Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2906

Giac [F(-2)]

Exception generated.

$$\int \frac{6e^{8e^{1171875/x}}x + 6x^3 + e^{4e^{1171875/x}}(-9375000e^{1171875/x} - 2x + 12x^2) + (6e^{8e^{1171875/x}}x - 2x^2 + 6x^3 + e^{4e^{1171875/x}})}{3e^{8e^{1171875/x}}x - x^2 + 3x^3 + e^{4e^{1171875/x}}(-x + 6x^2)} dx$$

input

```
integrate(((6*x*exp(4*exp(1171875/x))^2+(12*x^2-2*x)*exp(4*exp(1171875/x))
+6*x^3-2*x^2)*log((-3*x*exp(4*exp(1171875/x))-3*x^2+x)/(3*exp(4*exp(117187
5/x))+3*x))+6*x*exp(4*exp(1171875/x))^2+(-9375000*exp(1171875/x)+12*x^2-2*
x)*exp(4*exp(1171875/x))+6*x^3)/(3*x*exp(4*exp(1171875/x))^2+(6*x^2-x)*exp
(4*exp(1171875/x))+3*x^3-x^2),x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error
: Bad Argument Value
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2940

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{8-8x-8x^3+8x^4+e^{2x}(-8x^2+8x^3)}{e^{2x}x^2+x^3}} \frac{(-24x + 16x^2 + 8e^{4x}x^3 + 8x^5 + e^{2x}(-16 - 8x + 16x^2 + 16x^4))}{e^{4x}x^3 + 2e^{2x}x^4 + x^5} dx$$

= Exception raised: TypeError

input

```
integrate((8*x^3*exp(x)^4+(16*x^4+16*x^2-8*x-16)*exp(x)^2+8*x^5+16*x^2-24*
x)*exp(((8*x^3-8*x^2)*exp(x)^2+8*x^4-8*x^3-8*x+8)/(exp(x)^2*x^2+x^3))/(x^3
*exp(x)^4+2*exp(x)^2*x^4+x^5),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{512,[1,17]%%}+%%{-2048,[1,16]%%}+%%{2816,[1,15]%%}+%%
%{-6752,[
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{-80e^2 - 64x + e^x(8x^3 + 4x^4 + e^2(4x^2 + 4x^3)) + (144e^2 + 136x + e^x(-6x^3 - 4x^4 + e^2(-4x^2 - 4x^3)))}{400e^2 + 400x + e^x(40e^2x^2 + 40x^3) + e^{2x}(e^2x^4 + x^5) + (-640e^2 - 640x + e^x(-32e^2x^2 - 32x^3))} dx$$

= Exception raised: TypeError

input

```
integrate((( -4*exp(2)-4*x)*log(x+exp(2))^4+(32*exp(2)+32*x)*log(x+exp(2))^3+((x^3+x^2)*exp(2)+x^4+x^3)*exp(x)-100*exp(2)-100*x)*log(x+exp(2))^2+((( -4*x^3-4*x^2)*exp(2)-4*x^4-6*x^3)*exp(x)+144*exp(2)+136*x)*log(x+exp(2))+((4*x^3+4*x^2)*exp(2)+4*x^4+8*x^3)*exp(x)-80*exp(2)-64*x)/((16*exp(2)+16*x)*log(x+exp(2))^4+(-128*exp(2)-128*x)*log(x+exp(2))^3+((8*x^2*exp(2)+8*x^3)*exp(x)+416*exp(2)+416*x)*log(x+exp(2))^2+((-32*x^2*exp(2)-32*x^3)*exp(x)-640*exp(2)-640*x)*log(x+exp(2))+x^4*exp(2)+x^5)*exp(x)^2+(40*x^2*exp(2)+40*x^3)*exp(x)+400*exp(2)+400*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 464

Giac [F(-2)]

Exception generated.

$$\int \frac{-27 + 3e^{256} - 36x^3 + (27 - 3e^{256} + 9x - 18x^3) \log(x) + (-27 + 3e^{256} - 9x + 18x^3) \log^2(x)}{(-9 + e^{256} - 3x + 6x^3) \log^2(x) + (18 - 2e^{256} + 6x - 12x^3) \log(x) \log\left(\frac{1}{3}(-9 + e^{256} - 3x + 6x^3)\right) + (-9 + e^{256} - 3x + 6x^3)} dx$$

= Exception raised: TypeError

input

```
integrate(((3*exp(256)+18*x^3-9*x-27)*log(1/3*exp(256)+2*x^3-x-3)+(-3*exp(256)-18*x^3+9*x+27)*log(x)+3*exp(256)-36*x^3-27)/((exp(256)+6*x^3-3*x-9)*log(1/3*exp(256)+2*x^3-x-3)^2+(-2*exp(256)-12*x^3+6*x+18)*log(x)*log(1/3*exp(256)+2*x^3-x-3)+(exp(256)+6*x^3-3*x-9)*log(x)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[-1.0,
0.0,1.23157876138e+243,undef]proot error [1.0,-0.0,-1.23157876138e+243,und
ef]Franci
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 657

Giac [F(-2)]

Exception generated.

$$\int \frac{(-6 - 60x + 24x^2 + e^x(-12x - 12x^2)) \log^2(x) + ((2 + 20x - 8x^2 + e^x(4x + 4x^2)) \log(x) + ((60x + 12$$

= Exception raised: TypeError

input

```
integrate((( -2*log(x)-4*exp(x)*x+4*x^2-20*x)*log(log(x)+2*exp(x)*x-2*x^2+1
0*x)*log(log(log(x)+2*exp(x)*x-2*x^2+10*x))^2+((6*log(x)^2+(12*exp(x)*x-12
*x^2+60*x)*log(x))*log(log(x)+2*exp(x)*x-2*x^2+10*x)+((4*x^2+4*x)*exp(x)-8
*x^2+20*x+2)*log(x))*log(log(log(x)+2*exp(x)*x-2*x^2+10*x))+((-12*x^2-12*x
)*exp(x)+24*x^2-60*x-6)*log(x)^2)/(x*log(x)^4+(2*exp(x)*x^2-2*x^3+10*x^2)*
log(x)^3)/log(log(x)+2*exp(x)*x-2*x^2+10*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Sign error %%%{ln(w),0%%}%Sign erro
r %%%{ln(w),0%%}%Sign error %%%{ln(w),0%%}%Done
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 684

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{2-x+\log(2)}}(-2x-x\log(2)) + \frac{e^{450+\frac{x}{2-x+\log(2)}+50\log^2(x^2)}(-2x-x\log(2))}{x^{600}} + \frac{e^{225+25\log^2(x^2)}(600-600x+150x^2+(600-300x)\log(2))}{x^{300}}}{4x-4x^2+x^3+(4x-2x^2)\log(2)+x\log^2(2) + \frac{e^{225+25\log^2(x^2)}(-8x+8x^2-2x^3+(-8x+4x^2)\log(2))}{x^{300}}}$$

= Exception raised: TypeError

input

```
integrate(((x*log(2)-2*x)*exp(x/(log(2)+2-x))*exp(25*log(x^2)^2-150*log(x^2)+225)^2+((-50*log(2)^2+(100*x-200)*log(2)-50*x^2+200*x-200)*log(x^2)+(2*x*log(2)+4*x)*exp(x/(log(2)+2-x))+150*log(2)^2+(-300*x+600)*log(2)+150*x^2-600*x+600)*exp(25*log(x^2)^2-150*log(x^2)+225)+(-x*log(2)-2*x)*exp(x/(log(2)+2-x)))/((x*log(2)^2+(-2*x^2+4*x)*log(2)+x^3-4*x^2+4*x)*exp(25*log(x^2)^2-150*log(x^2)+225)^2+(-2*x*log(2)^2+(4*x^2-8*x)*log(2)-2*x^3+8*x^2-8*x)*exp(25*log(x^2)^2-150*log(x^2)+225)+x*log(2)^2+(-2*x^2+4*x)*log(2)+x^3-4*x^2+4*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-24000000,[0,3,915,1,1]%%}+%%{-48000000,[0,3,915,0,1]%%}+%%{264
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 767

Giac [F(-2)]

Exception generated.

$$\int \frac{(4x-10x^2+6x^3)\log^2(x) + e^{\frac{-x+x^2+5\log(x)}{(-1+x)\log(x)}}(-x+2x^2-x^3+(x-2x^2+x^3)\log(x) + (1-8x+2x^2)\log(x))}{(-1+x)\log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((2*x^2-8*x+1)*log(x)^2+(x^3-2*x^2+x)*log(x)-x^3+2*x^2-x)*exp((
5*log(x)+x^2-x)/(-1+x)/log(x))+(6*x^3-10*x^2+4*x)*log(x)^2)/(-1+x)/log(x)^
2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{4, [1,28]%%}+%%{-74, [1,27]%%}+%%{630, [1,26]%%}+%%{-32
90, [1,25]}
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 770

Giac [F(-2)]

Exception generated.

$$\int \frac{(-e^{2x} + 3e^x x - 2x^2) \log\left(\frac{e^{2x}x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) + (e^{2x} - 3e^x x + 2x^3) \log(x) \log(\log(x)) + (e^{2x} - 3e^x x + 2x^2) \log\left(\frac{e^{2x}x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) \log(\log(x))}{(e^{2x} - 3e^x x + 2x^2) \log(x) \log\left(\frac{e^{2x}x - 2e^x x^2}{e^{2x} - 2e^x x + x^2}\right) \log(\log(x))} dx$$

= Exception raised: TypeError

input

```
integrate(((exp(x)^2-3*exp(x)*x+2*x^2)*log(x)*log((x*exp(x)^2-2*exp(x)*x^2
)/(exp(x)^2-2*exp(x)*x+x^2))*log(log(x))*log(log((x*exp(x)^2-2*exp(x)*x^2
)/(exp(x)^2-2*exp(x)*x+x^2))/log(log(x)))+(exp(x)^2-3*exp(x)*x+2*x^3)*log(x
)*log(log(x))+(-exp(x)^2+3*exp(x)*x-2*x^2)*log((x*exp(x)^2-2*exp(x)*x^2)/(
exp(x)^2-2*exp(x)*x+x^2)))/(exp(x)^2-3*exp(x)*x+2*x^2)/log(x)/log((x*exp(x
)^2-2*exp(x)*x^2)/(exp(x)^2-2*exp(x)*x+x^2))/log(log(x)),x, algorithm="gia
c")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument
Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 890

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{67837+6x-3x^2}{768x}}(-67837-3x^2)}{3072x^2} dx = \text{Exception raised: TypeError}$$

input

```
integrate(1/3072*(-3*x^2-67837)*exp(1/768*(-3*x^2+6*x+67837)/x)/x^2,x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Polynomial exponent overflow. Error
: Bad Argument Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 897

Giac [F(-2)]

Exception generated.

$$\int \frac{(4+4x+4e^x x) \log^3(5+e^x+x+\log(x))}{20x+4e^x x+4x^2+4x \log(x)+(5x+e^x x+x^2+x \log(x)) \log^4(5+e^x+x+\log(x))} dx$$

= Exception raised: TypeError

input

```
integrate((4*exp(x)*x+4*x+4)*log(log(x)+exp(x)+5+x)^3/((x*log(x)+exp(x)*x+
x^2+5*x)*log(log(x)+exp(x)+5+x)^4+4*x*log(x)+4*exp(x)*x+4*x^2+20*x),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Sign error %%%{ln(w),0%%}Sign erro
r %%%{ln(w),0%%}Sign error %%%{ln(w),0%%}Sign error %%%{ln(w),0%%}Sign
error %%%
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 956

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{2e^4}x^2 - 10e^{3e^4}x^2 + 25e^{4e^4}x^2 - 2x \log(36) + 10e^{e^4}x \log(36)}{e^{4e^4}x^2 - 10e^{5e^4}x^2 + 25e^{6e^4}x^2 - 2e^{2e^4}x \log(36) + 10e^{3e^4}x \log(36) + \log^2(36)} dx$$

= Exception raised: NotImplementedError

input

```
integrate((25*x^2*exp(exp(4))^4-10*x^2*exp(exp(4))^3+x^2*exp(exp(4))^2+20*
x*log(6)*exp(exp(4))-4*x*log(6))/(25*x^2*exp(exp(4))^6-10*x^2*exp(exp(4))^
5+x^2*exp(exp(4))^4+20*x*log(6)*exp(exp(4))^3-4*x*log(6)*exp(exp(4))^2+4*
log(6)^2),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: (250
*exp(6*exp(4))*ln(6)*exp(exp(4))-50*exp(6*exp(4))*ln(6)-100*exp(5*exp(4))*
ln(6)*exp(exp(4))+20*exp(5*exp(4))*ln(6)-250*exp(4*exp(4))*exp(3*exp(4))*l
n(6)+50*exp(4*exp(4
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1035

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1,[0,1,2,0,0]%%}+%%{2,[0,1,1,1,1]%%}+%%{2,[0,1,1,1,0]%%
} / %%
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1440

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{225/x}(2x - x^9) + e^{225/x}(-450 + 2x + 225x^8 + 7x^9) \log(x)}{4x - 4x^9 + x^{17}} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((7*x^9+225*x^8+2*x-450)*exp(225/x)*log(x)+(-x^9+2*x)*exp(225/x)
)/(x^17-4*x^9+4*x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Polynomial exponent overflow. Error
: Bad Argument Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1454

Giac [F(-2)]

Exception generated.

$$\int \frac{2e^{e^3}x - 12x^6 - 50398x^7 - 77752800x^8 - 52478280000x^9 - 13116168000000x^{10} + 1312200000000x^{11} + \dots}{\dots}$$

= Exception raised: TypeError

input

```
integrate((-2*exp(exp(3))-131220000000*x^10+1311616800000*x^9+52478280000*x^8+77752800*x^7+50398*x^6+12*x^5)*log(2*exp(exp(3))+131220000000*x^10+5832000000*x^9+9720000*x^8+7200*x^7+2*x^6)+2*x*exp(exp(3))+131220000000*x^11-1311616800000*x^10-52478280000*x^9-77752800*x^8-50398*x^7-12*x^6)/(exp(exp(3))+656100000000*x^10+2916000000*x^9+4860000*x^8+3600*x^7+x^6),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Francis algorithm failure for[1.0,0.0,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity,infinity]
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1581

Giac [F(-2)]

Exception generated.

$$\int \frac{48x^3 + 3x^5 + (-144x^2 - 9x^4) \log(x) + (144x + 9x^3) \log^2(x) + (-48 - 3x^2) \log^3(x) + e^{\frac{2(3x^2+3x^4-6x^3 \log(x))}{x^2-2x \log(x)+1}}}{\dots}$$

= Exception raised: TypeError

input

```
integrate((((-12*x^2-1)*log(x)^3+(36*x^3+3*x)*log(x)^2+(-36*x^4-15*x^2)*log(x)+12*x^5+x^3+12*x^2)*exp((3*x^2*log(x)^2-6*x^3*log(x)+3*x^4+3*x^2)/(log(x)^2-2*x*log(x)+x^2))^2+((-12*x^3-4*x)*log(x)^3+(36*x^4+12*x^2)*log(x)^2+(-36*x^5-24*x^3)*log(x)+12*x^6+4*x^4+12*x^3)*exp((3*x^2*log(x)^2-6*x^3*log(x)+3*x^4+3*x^2)/(log(x)^2-2*x*log(x)+x^2))+(-3*x^2-48)*log(x)^3+(9*x^3+144*x)*log(x)^2+(-9*x^4-144*x^2)*log(x)+3*x^5+48*x^3)/(16*log(x)^3-48*x*log(x)^2+48*x^2*log(x)-16*x^3),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{62208,[2,38]%%}+%%{-808704,[2,37]%%}+%%{4852224,[2,36]%%}+%%{
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1778

Giac [F(-2)]

Exception generated.

$$\int \frac{10e^x + e^{2x-x^2+\frac{1}{10}(-30+e^{2x-x^2}x)}(-1-2x+2x^2)}{20e^{2x} + 20e^{\frac{1}{5}(-30+e^{2x-x^2}x)} - 40e^x \log(2) + 20 \log^2(2) + e^{\frac{1}{10}(-30+e^{2x-x^2}x)}(-40e^x + 40 \log(2))} dx$$

= Exception raised: TypeError

input

```
integrate(((2*x^2-2*x-1)*exp(-x^2+2*x)*exp(1/10*x*exp(-x^2+2*x)-3)+10*exp(x))/(20*exp(1/10*x*exp(-x^2+2*x)-3)^2+(-40*exp(x)+40*log(2))*exp(1/10*x*exp(-x^2+2*x)-3)+20*exp(x)^2-40*exp(x)*log(2)+20*log(2)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1781

Giac [F(-2)]

Exception generated.

$$\int \frac{-e^{5x} - 5e^{4x}x - 10e^{3x}x^2 - 10e^{2x}x^3 - 5e^xx^4 - x^5 + e^{\frac{1-4x+2x^2+8x^3-5x^4-9x^5+2x^6+4x^7+x^8+e^{4x}(1+3x+6x^2+4x^3+x^4)+e^{3x}}$$

= Exception raised: TypeError

input

```
integrate((((4*x^5+12*x^4+12*x^3+3*x^2+x)*exp(x)^5+(20*x^6+64*x^5+60*x^4+3*x^3-3*x^2)*exp(x)^4+(40*x^7+132*x^6+112*x^5-30*x^4-26*x^3+4*x^2)*exp(x)^3+(40*x^8+132*x^7+96*x^6-66*x^5-38*x^4+12*x^3-4*x^2)*exp(x)^2+(20*x^9+64*x^8+36*x^7-45*x^6-15*x^5-8*x^3+8*x^2)*exp(x)+4*x^10+12*x^9+4*x^8-9*x^7+x^6-8*x^5-4*x^4+12*x^3-4*x^2)*exp(((x^4+4*x^3+6*x^2+3*x+1)*exp(x)^4+(4*x^5+16*x^4+20*x^3-8*x-4)*exp(x)^3+(6*x^6+24*x^5+24*x^4-18*x^3-24*x^2+6)*exp(x)^2+(4*x^7+16*x^6+12*x^5-24*x^4-20*x^3+12*x^2+8*x-4)*exp(x)+x^8+4*x^7+2*x^6-9*x^5-5*x^4+8*x^3+2*x^2-4*x+1)/(exp(x)^4+4*x*exp(x)^3+6*exp(x)^2*x^2+4*exp(x)*x^3+x^4))-exp(x)^5-5*x*exp(x)^4-10*x^2*exp(x)^3-10*exp(x)^2*x^3-5*exp(x)*x^4-x^5)/(x*exp(x)^5+5*x^2*exp(x)^4+10*x^3*exp(x)^3+10*exp(x)^2*x^4+5*x^5*exp(x)+x^6),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-167772160, [4, 36]%%}+%%{4697620480, [4, 35]%%}+%%{-62914
560000, [4
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1998

Giac [F(-2)]

Exception generated.

$$\int \frac{4 + 5e^{12+2x^2-4e^3x^2+2e^6x^2} + 5x^2 + e^{6+x^2-2e^3x^2+e^6x^2}(18x - 16e^3x + 8e^6x)}{5e^{12+2x^2-4e^3x^2+2e^6x^2} + 10e^{6+x^2-2e^3x^2+e^6x^2}x + 5x^2} dx$$

= Exception raised: TypeError

input `integrate((5*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)^2+(8*x*exp(3)^2-16*x*exp(3)+18*x)*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)+5*x^2+4)/(5*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)^2+10*x*exp(x^2*exp(3)^2-2*x^2*exp(3)+x^2+6)+5*x^2), x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2098

Giac [F(-2)]

Exception generated.

$$\int \frac{(-4 + 4e^{4-x}) \log^2(x) + e^{\frac{5x^2}{4 \log(x)}} (-5x + 10x \log(x))}{4e^{\frac{5x^2}{4 \log(x)}} \log^2(x) + (-28 - 4e^{4-x} - 4x) \log^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate(((10*x*log(x)-5*x)*exp(5/4*x^2/log(x))+(4*exp(-x+4)-4)*log(x)^2)/(4*log(x)^2*exp(5/4*x^2/log(x))+(-4*exp(-x+4)-4*x-28)*log(x)^2), x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{62500,[0,17]}%% / %%{250000,[0,17]}%% Error: Bad Argument Value

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2221

Giac [F(-2)]

Exception generated.

$$\int \frac{18x + 13x^2 + 4x^3 - 3x^4 + x^5 + e^{25}(36x^2 + 16x^3 - 8x^4 + 4x^5) + (18x + 8x^2 - 4x^3 + 2x^4 + e^{25}(72x + 3x^2))}{e^{25}(9x^2 + 4x^3 - 2x^4 + x^5) + e^{25}(18x + 8x^2 - 4x^3 + 2x^4) \log\left(\frac{9+4x-x^2}{x}\right)} dx$$

= Exception raised: TypeError

input

```
integrate(((4*x^3-8*x^2+16*x+36)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)^2+((8*x^4-16*x^3+32*x^2+72*x)*exp(25)+2*x^4-4*x^3+8*x^2+18*x)*log((x^3-2*x^2+4*x+9)/x^2)+(4*x^5-8*x^4+16*x^3+36*x^2)*exp(25)+x^5-3*x^4+4*x^3+13*x^2+18*x)/((x^3-2*x^2+4*x+9)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)^2+(2*x^4-4*x^3+8*x^2+18*x)*exp(25)*log((x^3-2*x^2+4*x+9)/x^2)+(x^5-2*x^4+4*x^3+9*x^2)*exp(25)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2232

Giac [F(-2)]

Exception generated.

$$\int \frac{-30 \log^2(x) + e^{\frac{-2x+x^2+3x \log(x)}{30 \log(x)}} (2x - x^2 + (-2x + 2x^2) \log(x) + (30 + 3x) \log^2(x))}{30x^2 \log^2(x) - 60e^{\frac{-2x+x^2+3x \log(x)}{30 \log(x)}} x^2 \log^2(x) + 30e^{\frac{-2x+x^2+3x \log(x)}{15 \log(x)}} x^2 \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((3*x+30)*log(x)^2+(2*x^2-2*x)*log(x)-x^2+2*x)*exp(1/30*(3*x*log(x)+x^2-2*x)/log(x))-30*log(x)^2)/(30*x^2*log(x)^2*exp(1/30*(3*x*log(x)+x^2-2*x)/log(x))^2-60*x^2*log(x)^2*exp(1/30*(3*x*log(x)+x^2-2*x)/log(x))+30*x^2*log(x)^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{50625,[0,19]%%}+%%{-607500,[0,18]%%}+%%{3037500,[0,17]%%}+%%{
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2511

Giac [F(-2)]

Exception generated.

$$\int \frac{5e^{8+18x}x^2 + 5x^4 + e^{\frac{2}{5}/x}(-9x + 15x^2) + e^{4+9x}(10x^3 + e^{\frac{2}{5}/x}(6 + 135x^2)) + (-6e^{\frac{2}{5}/x} - 10e^{4+9x}x^2 - 10x^4)}{60e^{8+18x}x^2 + 120e^{4+9x}x^3 + 60x^4 + (-120e^{4+9x}x^2 - 120x^3)\log(x) + 60x^2\log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((5*x^2*log(x)^2+(-10*x^2*exp(9*x+4)-6*exp(2/5/x)-10*x^3)*log(x)+5*x^2*exp(9*x+4)^2+((135*x^2+6)*exp(2/5/x)+10*x^3)*exp(9*x+4)+(15*x^2-9*x)*exp(2/5/x)+5*x^4)/(60*x^2*log(x)^2+(-120*x^2*exp(9*x+4)-120*x^3)*log(x)+60*x^2*exp(9*x+4)^2+120*x^3*exp(9*x+4)+60*x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-109350,[0,3,6,0]%%}+%%{-4860,[0,3,4,0]%%}+%%{273375,[0,2,8,0]%
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2966

Giac [F(-2)]

Exception generated.

$$\int \frac{(16 + 8x + x^2 + e^x(-32 - 16x - 2x^2) + e^{2x}(16 + 8x + x^2)) \log^2(x) + e^{\frac{-4x - 8 \log(x)}{(-4 - x + e^x(4+x)) \log(x)}} (-16 - 4x + e^x)}{(16 + 8x + x^2 + e^x(-32 - 16x - 2x^2) + e^{2x}(16 + 8x + x^2)) \log^2(x) + e^{\frac{-4x - 8 \log(x)}{(-4 - x + e^x(4+x)) \log(x)}} (-16 - 4x + e^x)} dx$$

= Exception raised: TypeError

input

```
integrate((((8*x+40)*exp(x)-8)*log(x)^2+((4*x^2+16*x-16)*exp(x)+16)*log(x)
)+(4*x+16)*exp(x)-16-4*x)*exp((-8*log(x)-4*x)/((4+x)*exp(x)-x-4)/log(x))+
(x^2+8*x+16)*exp(x)^2+(-2*x^2-16*x-32)*exp(x)+x^2+8*x+16)*log(x)^2)/((x^2+
8*x+16)*exp(x)^2+(-2*x^2-16*x-32)*exp(x)+x^2+8*x+16)/log(x)^2,x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:exp(sageVARx)^2=exp(2*sageVARx)exp(
sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=exp(2*sageVARx)exp(sageVARx)^2=
exp(2*sag
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 232

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{e}{\log\left(\frac{3+e^{8+x}}{e^8}\right)}} \left(e^{8+x}(-24e - e^3x) + (3e^2 + e^{10+x}) \log^2\left(\frac{3+e^{8+x}}{e^8}\right) \right)}{(3 + e^{8+x}) \log^2\left(\frac{3+e^{8+x}}{e^8}\right)} dx$$

= Exception raised: TypeError

input

```
integrate(((exp(2)*exp(4)^2*exp(x)+3*exp(2))*log((exp(4)^2*exp(x)+3)/exp(4)
)^2)+(-x*exp(1)*exp(2)-24*exp(1))*exp(4)^2*exp(x))*exp(exp(1)/log((exp(4)
)^2*exp(x)+3)/exp(4)^2))/((exp(4)^2*exp(x)+3)/log((exp(4)^2*exp(x)+3)/exp(4)
)^2)^2,x, algorithm="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1, [1,17,9,10,0,80,1]%%}+%%{21, [1,17,9,9,0,72,1]%%}+%%{
189, [1,17
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 388

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-2 - \frac{-4x + e^2 x \log(x^2)}{e^2}} \left(-e^2 \log\left(\frac{25}{2}\right) + (-20 + e^2(10 - 2x) + 4x) \log\left(\frac{25}{2}\right) \log(5 - x) + e^2(5 - x) \log\left(\frac{25}{2}\right) \log(5 - x) \right)}{(-5 + x) \log^2(5 - x)}$$

= Exception raised: TypeError

input

```
integrate(((5-x)*exp(2)*log(25/2)*log(5-x)*log(x^2)+((-2*x+10)*exp(2)+4*x-
20)*log(25/2)*log(5-x)-exp(2)*log(25/2))/(-5+x)/exp(2)/log(5-x)^2/exp((x*
exp(2)*log(x^2)-4*x)/exp(2)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-4, [0,0,5,4,1,0]%%}+%%{4, [0,0,5,4,0,1]%%}+%%{1, [0,0,4,
5,1,0]%%}
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 484

Giac [F(-2)]

Exception generated.

$$\int \frac{3x^2 + 3x^3 - x^4 + e^{e^5}(-3 - 3x - 6x^3 - 6x^4 + 2x^5) + e^{2e^5}(6x + 3x^2 + 3x^4 + 3x^5 - x^6)}{-4x^2 - x^3 + x^4 + e^{e^5}(3x + 8x^3 + 2x^4 - 2x^5) + e^{2e^5}(-3x^2 - 4x^4 - x^5 + x^6)} dx$$

= Exception raised: TypeError

input

```
integrate(((x^6+3*x^5+3*x^4+3*x^2+6*x)*exp(exp(5))^2+(2*x^5-6*x^4-6*x^3-3*x-3)*exp(exp(5))-x^4+3*x^3+3*x^2)/((x^6-x^5-4*x^4-3*x^2)*exp(exp(5))^2+(-2*x^5+2*x^4+8*x^3+3*x)*exp(exp(5))+x^4-x^3-4*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[undef,0.0,undef,undef,undef,undef]proot error [undef,0.0,undef,undef,undef,undef]proot e
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 515

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{e^{21+x}-3x^2-e^x x^2}{3x+e^x x}}(e^{21+x}(18+6e^x-18x)+54x^2+36e^x x^2+6e^{2x} x^2)+e^{\frac{2(e^{21+x}-3x^2-e^x x^2)}{3x+e^x x}}(-18x^2-12e^x x^2-9x^2+6e^x x^2+e^{2x} x^2)}{9x^2+6e^x x^2+e^{2x} x^2}$$

= Exception raised: TypeError

input

```
integrate(((((-2*exp(x)+6*x-6)*exp(x+21)-2*exp(x)^2*x^2-12*exp(x)*x^2-18*x^2)*exp((exp(x+21)-exp(x)*x^2-3*x^2)/(exp(x)*x+3*x))^2+((6*exp(x)-18*x+18)*exp(x+21)+6*exp(x)^2*x^2+36*exp(x)*x^2+54*x^2)*exp((exp(x+21)-exp(x)*x^2-3*x^2)/(exp(x)*x+3*x)))/(exp(x)^2*x^2+6*exp(x)*x^2+9*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-7776, [2,0,26,24]%%}+%%{-606528, [2,0,25,24]%%}+%%{-22744800, [2,
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 602

Giac [F(-2)]

Exception generated.

$$\int \frac{36x^3 + 24x^5 + 4e^{2x}x^5 + 4x^7 + e^x(-24x^4 - 8x^6) + e^{2x+2e^{\frac{-12+5e^x x - 5x^2}{-3+e^x x - x^2}}} x^2 \left(18 + 12x^2 + 2e^{2x}x^2 + 2x^4 + e^x \right)}{\dots} dx$$

= Exception raised: RuntimeError

input

```
integrate((((4*exp(x)^2*x^3+(-8*x^4-6*x^3-30*x^2)*exp(x)+4*x^5+36*x^3+36*x)
)*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+2*exp(x)^2*x^2+(-4*x^3-12*x)
*exp(x)+2*x^4+12*x^2+18)*exp(x^2*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3)
))+x)^2+((-4*x^5*exp(x)^2+(8*x^6+6*x^5+30*x^4)*exp(x)-4*x^7-36*x^5-36*x^3)
*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+(-2*x^4-4*x^3)*exp(x)^2+(4*x^
5+8*x^4+12*x^3+24*x^2)*exp(x)-2*x^6-4*x^5-12*x^4-24*x^3-18*x^2-36*x)*exp(x
^2*exp((5*exp(x)*x-5*x^2-12)/(exp(x)*x-x^2-3))+x)+4*x^5*exp(x)^2+(-8*x^6-2
4*x^4)*exp(x)+4*x^7+24*x^5+36*x^3)/(exp(x)^2*x^2+(-2*x^3-6*x)*exp(x)+x^4+6
*x^2+9),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{16, [
0,2,10,11]%%}+%%{-128, [0,2,9,12]%%}+%%{-48, [0,2,9,11]%%}+%%{-432, [0,
2,9,10]%%}+
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 654

Giac [F(-2)]

Exception generated.

$$\int e^{\frac{16x-81x^2-24e^{\frac{1}{5}(5x+\log(5))}x^2+9e^{\frac{2}{5}(5x+\log(5))}x^3}{16-24e^{\frac{1}{5}(5x+\log(5))}x+9e^{\frac{2}{5}(5x+\log(5))}x^2}} \left(\frac{-64 + 648x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3 + e^{\frac{1}{5}(5x+\log(5))}}{-64 + 144e^{\frac{1}{5}(5x+\log(5))}x - 108e^{\frac{2}{5}(5x+\log(5))}x^2 + 27e^{\frac{3}{5}(5x+\log(5))}x^3} \right)$$

= Exception raised: TypeError

input

```
integrate((27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+(486*x^3+144*x)*exp(1/5*log(5)+x)+648*x-64)*exp((9*x^3*exp(1/5*log(5)+x)^2-24*x^2*exp(1/5*log(5)+x)-81*x^2+16*x)/(9*x^2*exp(1/5*log(5)+x)^2-24*x*exp(1/5*log(5)+x)+16))/(27*x^3*exp(1/5*log(5)+x)^3-108*x^2*exp(1/5*log(5)+x)^2+144*x*exp(1/5*log(5)+x)-64),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{-51257812500000000,[2,12,0,1,0]%%}+%%{12301875000000000,[2,11,1,
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 667

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{2}{\log(4-x)}} \left(40x^2 + 40x^3 + 10x^4 + e^{\frac{8}{2+x} + \frac{2}{\log(4-x)}} (-32 + 8x) \log^2(4-x) + (-160x - 120x^2 + 10x^4) \log^2(4-x) \right)}{(-16 - 12x + x^3) \log^2(4-x)}$$

= Exception raised: TypeError

input

```
integrate(((8*x-32)*exp(4/(2+x))^2*log(-x+4)^2*exp(2/log(-x+4))+(10*x^4-120*x^2-160*x)*log(-x+4)^2+10*x^4+40*x^3+40*x^2)/(x^3-12*x-16)/log(-x+4)^2/exp(2/log(-x+4)),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{8, [0,19]%%}+%%{64, [0,18]%%}+%%{-288, [0,17]%%}+%%{-4224, [0,16]}
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 685

Giac [F(-2)]

Exception generated.

$$\int \frac{e^5 \left(3x - \frac{(-15+3x)\log(3+\log(x))}{e^5} \right)}{\log(3+\log(x))} \left(-3 + (9 + 3\log(x))\log(3 + \log(x)) - \frac{(9+3\log(x))\log^2(3+\log(x))}{e^5} \right)}{(3 + \log(x))\log^2(3 + \log(x))} dx$$

= Exception raised: RuntimeError

input

```
integrate(((3*log(x)+9)*log(3+log(x))*exp(log(-log(3+log(x))))-5)+(3*log(x)+9)*log(3+log(x))-3)*exp(((3*x-15)*exp(log(-log(3+log(x))))-5)+3*x)/exp(log(-log(3+log(x))))-5)/(3+log(x))/log(3+log(x))/exp(log(-log(3+log(x))))-5),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{27, [0,1,0,3]%%}+%%{81, [0,0,0,3]%%} / %%{27, [0,2,0,3]%%}+%%{162, [0,1,0,3]%%}+%%{243
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 697

Giac [F(-2)]

Exception generated.

$$\int \frac{e^5(-e^{21} - 3x^2) \log(3)}{(e^{21}x + x^3)^2} dx = \text{Exception raised: NotImplementedError}$$

input

```
integrate((-exp(21)-3*x^2)*exp(log(log(3)/(x*exp(21)+x^3))+5)/(x*exp(21)+x^3),x, algorithm="giac")
```

output

```
Exception raised: NotImplementedError >> unable to parse Giac output: -(-2*exp(5)*ln(3)*exp(1)^21+6*exp(5)*ln(3)*exp(21))*1/2/(exp(1)^21*exp(21)-exp(21)^2)/exp(21/2)*atan(sageVARx/exp(21/2))+4*exp(5)*ln(3)*1/2/(exp(1)^21-exp(21))/exp(1)^10/e
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 708

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{5}{\log(-4+e^{2x+x+\log(5+x)})}} \left(-5 + e^{e^{2x}+x}(-25 + e^{2x}(-50 - 10x) - 5x) \right)}{(-20 - 4x + e^{e^{2x}+x}(5+x) + (5+x) \log(5+x)) \log^2(-4 + e^{e^{2x}+x} + \log(5+x))} dx$$

= Exception raised: RuntimeError

input

```
integrate(((((-10*x-50)*exp(2*x)-5*x-25)*exp(exp(2*x)+x)-5)*exp(5/log(exp(exp(2*x)+x)+log(5+x)-4)))/((5+x)*exp(exp(2*x)+x)+(5+x)*log(5+x)-4*x-20)/log(exp(exp(2*x)+x)+log(5+x)-4)^2,x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Unable to divide, perhaps due to rounding error%%{91125000,[0,7,0,3,10]%%}+%%{3189375000,[0,7,0,3,9]%%}+%%{47840625000,[0,7,0,3,8]%%}+%
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 718

Giac [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5 x + x^2)}} (8x^3 + (12e^5 x^2 - 12x^3) \log(e^{10} - 2e^5 x + x^2))}{(e^{10} - e^5 x) \log^2(e^{10} - 2e^5 x + x^2)} dx$$

= Exception raised: TypeError

input

```
integrate((((12*x^2*exp(5)-12*x^3)*log(exp(5)^2-2*x*exp(5)+x^2)+8*x^3)*exp
(4*x^3/exp(5)/log(exp(5)^2-2*x*exp(5)+x^2))+((exp(5)^2-x*exp(5))*log(exp(5)
^2-2*x*exp(5)+x^2)^2)/(exp(5)^2-x*exp(5))/log(exp(5)^2-2*x*exp(5)+x^2)^2,x
, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-196608,[1,22,6]%%}+%%{786432,[1,21,7]%%}+%%{-1179648,
[1,20,8]%
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 775

Giac [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-1+25x+16x^3+10e^x x^3+100x^4}{10x^3+5e^x x^3}} (6 - 100x + 200x^4 + e^x (3 - 49x - 25x^2 + 104x^4 - 100x^5))}{20x^4 + 20e^x x^4 + 5e^{2x} x^4} dx$$

= Exception raised: TypeError

input

```
integrate(((−100*x^5+104*x^4−25*x^2−49*x+3)*exp(x)+200*x^4−100*x+6)*exp((1
0*exp(x)*x^3+100*x^4+16*x^3+25*x−1)/(5*exp(x)*x^3+10*x^3))/(5*exp(x)^2*x^4
+20*exp(x)*x^4+20*x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{1000000000000,[1,29]%%}+%%{-2200000000000,[1,28]%%}+%%
{13360000
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 991

Giac [**F(-2)**]

Exception generated.

$$\int \frac{2^{-1/x} \left(2^{\frac{1}{x}} e^{-5+x} (-x - x^2) + e^{-2+x} (x + x^2 + \log(2)) \right)}{x} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-x^2-x)*exp(-5+x)*exp(log(2)/x)+(log(2)+x^2+x)*exp(-2+x))/x/ex
p(log(2)/x),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{-1,[0,1,1,1,1,0]%%}+%%{-1,[0,1,1,1,0,0]%%}+%%{1,[0,1,0
,0,1,1]%%
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1075

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{-x^2 + x^8}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(1/(x^8-x^2)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -atan(i)/3*sign(sageVARx)+1/3*atan(sqrt(sageVARx^6-1))/sign(sageVARx)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 189

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^{10}\sqrt{-1 + x^6}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^10/(x^6-1)^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 233

Giac [F(-2)]

Exception generated.

$$\int \frac{1+x^6}{x^{10}\sqrt{-1+x^6}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^6+1)/x^10/(x^6-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 234

Giac [F(-2)]

Exception generated.

$$\int \frac{1+x^{12}}{x^{16}\sqrt{-1+x^6}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^12+1)/x^16/(x^6-1)^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 342

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3) \sqrt{-1 + x^6}}{x^7 (1 + x^3)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^3-1)*(x^6-1)^(1/2)/x^7/(x^3+1),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: 2/3*
sign(sageVARx)+2*(1/12*(1/sageVARx)^3/sign(sageVARx)-1/3/sign(sageVARx))*
sqrt(-(1/sageVARx)^6+1)+3/2/sign(sageVARx)*(-atan(i)/3*sign(sageVARx)+1/3*a
tan(sqrt(sageVARx^6

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 539

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3) \sqrt{-1 + x^6}}{x^7 (-1 + x^3)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^3+1)*(x^6-1)^(1/2)/x^7/(x^3-1),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: -2/3
sign(sageVARx)+2(1/12*(1/sageVARx)^3/sign(sageVARx)+1/3/sign(sageVARx))*
sqrt(-(1/sageVARx)^6+1)+3/2/sign(sageVARx)*(-atan(i)/3*sign(sageVARx)+1/3*
atan(sqrt(sageVARx^6

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 540

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3) \sqrt{-1 + x^6}}{x^{10}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^3-1)*(x^6-1)^(1/2)/x^10,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/9*sign(sageVARx)+2*((1/sageVARx)^3*(1/18*(1/sageVARx)^3/sign(sageVARx)-1/12/sign(sageVARx))-1/18/sign(sageVARx))*sqrt(-(1/sageVARx)^6+1)+1/2/sign(sageVARx)*(-atan(i)/3*s`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 627

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^6)(1 + x^6)}{\sqrt[4]{x - x^4 + x^7}(1 + 3x^6 + x^{12})} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^6-1)*(x^6+1)/(x^7-x^4+x)^(1/4)/(x^12+3*x^6+1),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value in tegrate((sageVARx^12+3*sageVARx^6+1)^-1*((sageVARx^7-sageVARx^4+sageVARx)^(1/4))^-1*(s`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 641

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)\sqrt{-1+x^6}}{x^{13}(-1+x^3)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^3+1)*(x^6-1)^(1/2)/x^13/(x^3-1),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: $-4/9 * \text{sign}(\text{sageVARx}) + 2 * ((1/\text{sageVARx})^3 * ((1/\text{sageVARx})^3 * (1/24 * (1/\text{sageVARx})^3 / \text{sign}(\text{sageVARx}) + 1/9 / \text{sign}(\text{sageVARx})) + 7/48 / \text{sign}(\text{sageVARx})) + 2/9 / \text{sign}(\text{sageVARx})) * \text{qrt}(-1/\text{sageVARx})^6$

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 657

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^3)\sqrt{-1+x^6}}{x^{13}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^3-1)*(x^6-1)^(1/2)/x^13,x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: $-1/9 * \text{sign}(\text{sageVARx}) + 2 * ((1/\text{sageVARx})^3 * ((1/\text{sageVARx})^3 * (1/24 * (1/\text{sageVARx})^3 / \text{sign}(\text{sageVARx}) - 1/18 / \text{sign}(\text{sageVARx})) - 1/48 / \text{sign}(\text{sageVARx})) + 1/18 / \text{sign}(\text{sageVARx})) * \text{sqrt}(-1/\text{sageVARx})$

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 694

Giac [F(-2)]

Exception generated.

$$\int \frac{a(ab + ac - 3bc) + (-2a^2 + ab + ac + 3bc)x + (a - 2b - 2c)x^2 + x^3}{\sqrt{(-a + x)(-b + x)(-c + x)}(-bc - a^3d + (b + c + 3a^2d)x - (1 + 3ad)x^2 + dx^3)} dx$$

= Exception raised: TypeError

input

```
integrate((a*(a*b+a*c-3*b*c)+(-2*a^2+a*b+a*c+3*b*c)*x+(a-2*b-2*c)*x^2+x^3)
/(((-a+x)*(-b+x)*(-c+x))^(1/2)/(-b*c-a^3*d+(3*a^2*d+b+c)*x-(3*a*d+1)*x^2+d*
x^3),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument
Value
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 781

Giac [F(-2)]

Exception generated.

$$\int \frac{-x^2 + 10x^8}{\sqrt{-1 + x^6}(-1 + 4x^6)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((10*x^8-x^2)/(x^6-1)^(1/2)/(4*x^6-1),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:rootof minimal polynomial must be u
nitary Error: Bad Argument Valuerootof minimal polynomial must be unitary
Error: Ba
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 851

Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value in
tegrate((sageVARx^6+sageVARx^3+2)^-1*((sageVARx^3+1)^(1/3))^2*(sageVARx^3-
2)/sageVARx^
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 962

Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^3)(1 + x^3)^{2/3}}{x^3(2 + x^3 + x^6)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((x^3-2)*(x^3+1)^(2/3)/x^3/(x^6+x^3+2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value in
tegrate((sageVARx^6+sageVARx^3+2)^-1*((sageVARx^3+1)^(1/3))^2*(sageVARx^3-
2)/sageVARx^
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 963

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-1+x^3)\sqrt[3]{-x^2+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3-1)/(x^3-x^2)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 969

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{(-1+x^3)\sqrt[3]{-x^2+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(x^3-1)/(x^3-x^2)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 970

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(1-x^4+x^8)}{x^6(1+2x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4-1)^(1/4)*(x^8-x^4+1)/x^6/(2*x^8+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1040

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(1-x^4+x^8)}{x^6(1+2x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4-1)^(1/4)*(x^8-x^4+1)/x^6/(2*x^8+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1041

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (2 + x^3 + 2x^6)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valuein
tegrate((2*sageVARx^6+sageVARx^3+2)^-1*(sageVARx^3+2)*((sageVARx^3-1)^(1/3
))^2/sageVAR
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1052

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^3)^{2/3} (2 + x^3)}{x^6 (2 + x^3 + 2x^6)} dx = \text{Exception raised: RuntimeError}$$

input

```
integrate((x^3-1)^(2/3)*(x^3+2)/x^6/(2*x^6+x^3+2),x, algorithm="giac")
```

output

```
Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valuein
tegrate((2*sageVARx^6+sageVARx^3+2)^-1*(sageVARx^3+2)*((sageVARx^3-1)^(1/3
))^2/sageVAR
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1053

Giac [F(-2)]

Exception generated.

$$\int \frac{1+x}{\sqrt{-7+4x+14x^2-12x^3+x^4}} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((1+x)/(x^4-12*x^3+14*x^2+4*x-7)^(1/2),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (-atan(i)+ln(4*sqrt(2)))*sign(sageVARx-1)+2*(1/2*atan(1/4*(-sageVARx+sqrt(sageVARx^2-10*sageVARx-7)+1)))/sign(sageVARx-1)-1/2*ln(abs(-sageVARx+sqrt(sageVARx^2-10*sageVARx-7`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1081

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2+ax^4}(b+ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1092

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1093

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1105

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1106

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-1 + x^6}(-1 + 2x^6)^2}{x^4(-1 + 4x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^6-1)^(1/2)*(2*x^6-1)^2/x^4/(4*x^6-1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:rootof minimal polynomial must be unitary Error: Bad Argument Valuerootof minimal polynomial must be unitary Error: Ba`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1145

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{bx^2 + ax^4}(-2b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4+b*x^2)^(1/4)/(a*x^8-2*b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument
Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1149

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt[4]{bx^2 + ax^4}(-2b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^4+b*x^2)^(1/4)/(a*x^8-2*b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Not invertible Error: Bad Argument
Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1150

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^4) \sqrt{1 + x^4}}{1 + x^2 + 3x^4 + x^6 + x^8} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^4-1)*(x^4+1)^(1/2)/(x^8+x^6+3*x^4+x^2+1),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command:
:INPUT:sage2OUTPUT:Precision problem choosing root in common_EXT, current
precision 14Precision problem choosing root in common_EXT, current precisi
on 14Invalid`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1256

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^8}{\sqrt[4]{-x^2 + x^4} (1 + x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^8-1)/(x^4-x^2)^(1/4)/(x^8+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1309

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^8}{\sqrt[4]{-x^2 + x^4} (1 + x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^8-1)/(x^4-x^2)^(1/4)/(x^8+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1310

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^6 (1 + x^3) \sqrt[3]{x^2 + x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^6/(x^3+1)/(x^3+x^2)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1413

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{x^6(1+x^3)\sqrt[3]{x^2+x^3}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/x^6/(x^3+1)/(x^3+x^2)^(1/3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1414

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt{1+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)*(1+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValuePrecision problem choosing root in common_EXT, current p
recision`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1432

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt{1+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)*(1+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValuePrecision problem choosing root in common_EXT, current p
recision

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1433

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(2+x^4)}{x^2(2+2x^4+x^8)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^4-1)^(1/4)*(x^4+2)/x^2/(x^8+2*x^4+2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: %p
oly1[11728124029819/13521606404067752414158038073344*sin(1/4*atan(1/3))*at
an((4123168604160*(sageVARx^4-1)^(1/4)/sageVARx-sin(1/4*atan(13/9)))*exp(1/
4*ln(14450882888647

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1516

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-1+x^4}(2+x^4)}{x^2(2+2x^4+x^8)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((x^4-1)^(1/4)*(x^4+2)/x^2/(x^8+2*x^4+2),x, algorithm="giac")`

output Exception raised: NotImplementedError >> unable to parse Giac output: %%{poly1[11728124029819/13521606404067752414158038073344*sin(1/4*atan(1/3))*atan((4123168604160*(sageVARx^4-1)^(1/4)/sageVARx-sin(1/4*atan(13/9))*exp(1/4*ln(14450882888647

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1517

Giac [F(-2)]

Exception generated.

$$\int \frac{(-2+x^2)\sqrt[3]{x+x^3}}{x^2(4-2x^2+x^4)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument Value6*((1/sageVARx)^2+1)^(1/3)/8+integr

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1553

Giac [F(-2)]

Exception generated.

$$\int \frac{(-2 + x^2) \sqrt[3]{x + x^3}}{x^2 (4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^2-2)*(x^3+x)^(1/3)/x^2/(x^4-2*x^2+4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueIn valid _EXT in replace_ext Error: Bad Argument Value6*((1/sageVARx)^2+1)^(1/3)/8+integr`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1554

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + x^3)^{2/3} (4 + 6x^3 + 3x^6)}{x^6 (8 + 6x^3 + 3x^6)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valuein tegrate((3*sageVARx^6+6*sageVARx^3+8)^-1*(3*sageVARx^6+6*sageVARx^3+4)*((s ageVARx^3+1)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1674

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)^{2/3}(4+6x^3+3x^6)}{x^6(8+6x^3+3x^6)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^3+1)^(2/3)*(3*x^6+6*x^3+4)/x^6/(3*x^6+6*x^3+8),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value in tegrate((3*sageVARx^6+6*sageVARx^3+8)^-1*(3*sageVARx^6+6*sageVARx^3+4)*((s ageVARx^3+1)`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1675

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt[4]{x^2+x^4}(1+x^4+x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(x^4+x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1692

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4}{\sqrt[4]{x^2 + x^4} (1 + x^4 + x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4/(x^4+x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proo
t error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,
0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1693

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + 2x^2) \sqrt[3]{x + 2x^3}}{x^4 (1 + 2x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^2+1)*(2*x^3+x)^(1/3)/x^4/(2*x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1711

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{x + 2x^3}(-1 + x^4)}{x^4(2 - x^2 + x^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((2*x^3+x)^(1/3)*(x^4-1)/x^4/(x^4-x^2+2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1764

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value(3072*(-(1/sageVARx)^2+1)^(1/3)*(-(1/sageVARx)^2+1)+9216*(-(1/sageVARx)^2+1)^(1/3))/4096`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1778

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x + x^3}(8 - 10x^2 + x^4)}{x^4(4 - 2x^2 + x^4)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^3-x)^(1/3)*(x^4-10*x^2+8)/x^4/(x^4-2*x^2+4),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value(3072*(-(1/sageVARx)^2+1)^(1/3)*(-(1/sageVARx)^2+1)+9216*(-(1/sageVARx)^2+1)^(1/3))/4096`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1779

Giac [F(-2)]

Exception generated.

$$\int \frac{(1 + x^4) \sqrt[4]{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4+1)*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1793

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^4)\sqrt[4]{-x^2+x^4}}{1+x^4+x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4+1)*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:root error [1,0,0,0,1,0,0,0,1]proo
t error [1,0,0,0,-1,0,0,0,1]root error [1,0,-10,0,1]root error [1,0,-10,
0,1]root

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1794

Giac [F(-2)]

Exception generated.

$$\int \frac{1+k^{3/2}x^3}{\sqrt{(1-x^2)(1-k^2x^2)}(-1+k^{3/2}x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((1+k^(3/2)*x^3)/((-x^2+1)*(-k^2*x^2+1))^(1/2)/(-1+k^(3/2)*x^3),x
, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1824

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + k^{3/2}x^3}{\sqrt{(1-x^2)(1-k^2x^2)}(1+k^{3/2}x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate((-1+k^(3/2)*x^3)/((-x^2+1)*(-k^2*x^2+1))^(1/2)/(1+k^(3/2)*x^3),x
, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1837

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + x^4}{\sqrt[4]{x^2 + x^4}(-1 - x^4 + 2x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4+2)/(x^4+x^2)^(1/4)/(2*x^8-x^4-1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1851

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + x^4}{\sqrt[4]{x^2 + x^4} (-1 - x^4 + 2x^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4+2)/(x^4+x^2)^(1/4)/(2*x^8-x^4-1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1852

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1 + x^4) \sqrt{1 + \sqrt{1 + x}}}{1 + x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4-1)*(1+(1+x)^(1/2))^(1/2)/(x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1877

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^4)\sqrt{1+\sqrt{1+x}}}{1+x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((x^4-1)*(1+(1+x)^(1/2))^(1/2)/(x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1878

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{1+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(1+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDon
e`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1882

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{1+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(1+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1883

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^6)(1+x^6)^{2/3}}{x^3(2-x^3+2x^6)} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^6-1)*(x^6+1)^(2/3)/x^3/(2*x^6-x^3+2),x, algorithm="giac")`

output `Exception raised: RuntimeError >> an error occurred running a Giac command :INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Valueintegrate((2*sageVARx^6-sageVARx^3+2)^-1*((sageVARx^6+1)^(1/3))^2*(sageVARx^6-1)/sageVAR`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1919

Giac [F(-2)]

Exception generated.

$$\int \frac{-b + ax^8}{\sqrt[4]{-bx^2 + ax^4} (b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^8-b)/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument
Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1967

Giac [F(-2)]

Exception generated.

$$\int \frac{-b + ax^8}{\sqrt[4]{-bx^2 + ax^4} (b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^8-b)/(a*x^4-b*x^2)^(1/4)/(a*x^8+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument
Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1968

Giac [F(-2)]

Exception generated.

$$\int \frac{b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^8+b)/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1982

Giac [F(-2)]

Exception generated.

$$\int \frac{b + ax^8}{\sqrt[4]{-bx^2 + ax^4}(-b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^8+b)/(a*x^4-b*x^2)^(1/4)/(a*x^8-b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Not invertible Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 1983

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + x + x^2}{(3 + 2x + x^2) \sqrt[3]{x^2 + x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^2+x+2)/(x^2+2*x+3)/(x^3+x^2)^(1/3),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value-1
n(abs((1/sageVARx+1)^(1/3)-1))+1/2*ln(((1/sageVARx+1)^(1/3))^2+(1/sageVARx
+1)^(1/3)+1)

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2047

Giac [F(-2)]

Exception generated.

$$\int \frac{2 + x + x^2}{(3 + 2x + x^2) \sqrt[3]{x^2 + x^3}} dx = \text{Exception raised: RuntimeError}$$

input `integrate((x^2+x+2)/(x^2+2*x+3)/(x^3+x^2)^(1/3),x, algorithm="giac")`

output Exception raised: RuntimeError >> an error occurred running a Giac command
:INPUT:sage2OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument Value-1
n(abs((1/sageVARx+1)^(1/3)-1))+1/2*ln(((1/sageVARx+1)^(1/3))^2+(1/sageVARx
+1)^(1/3)+1)

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2048

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-b + ax^4}(-8b + ax^8)}{x^{10}(b + ax^4)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4-b)^(1/4)*(a*x^8-8*b)/x^10/(a*x^4+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{-8, [0,1,8,2,0]%%}+%%{8, [0,1,4,1,1]%%}+%%{1, [0,1,0,1,1]%%}+%%{`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2134

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{1+x}(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)/(1+x)^(1/2)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2152

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{\sqrt{1+x}(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)/(1+x)^(1/2)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2153

Giac [F(-2)]

Exception generated.

$$\int \frac{x(-4a + 3x)}{\sqrt[3]{x^2(-a + x)}(a - x + dx^4)} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(x*(-4*a+3*x)/(x^2*(-a+x))^(1/3)/(d*x^4+a-x),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: 1/2*(-1/sageVARd)^(1/3)*ln((sqrt(3)*(abs(sageVARd)^(1/3))^2*sqrt(3)/2*(-sageVARa/sageVARx+1)^(1/3)*(-sageVARa/sageVARx+1)-sqrt(3)*(abs(sageVARd)^(1/3))^2*sqrt(3)/2*(-sageV`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2162

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1 + \sqrt{1 - \sqrt{1 + \frac{1}{x^2}}}}}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((1+(1-(1+1/x^2)^(1/2))^(1/2))^(1/2)/x,x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Error index.cc index_gcd Error: Bad
Argument ValueError index.cc index_gcd Error: Bad Argument ValueError ind
ex.cc ind`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2171

Giac [F(-2)]

Exception generated.

$$\int \frac{(1+x^3)\sqrt{-2-x^3+x^6}}{x^4(-1-2x^3+x^6)} dx = \text{Exception raised: AttributeError}$$

input `integrate((x^3+1)*(x^6-x^3-2)^(1/2)/x^4/(x^6-2*x^3-1),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2203

Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}} \sqrt{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a/b^2+a^2*x^2/b^2)^(1/2)*(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2210

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x^2 + x^3}}{1 + x + x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x^2)^(1/3)/(x^2+x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2338

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[3]{-x^2 + x^3}}{1 + x + x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x^3-x^2)^(1/3)/(x^2+x+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2339

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt[4]{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proo
t error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,
0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2371

Giac [F(-2)]

Exception generated.

$$\int \frac{x^4 \sqrt[4]{-x^2 + x^4}}{1 + x^4 + x^8} dx = \text{Exception raised: TypeError}$$

input `integrate(x^4*(x^4-x^2)^(1/4)/(x^8+x^4+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2372

Giac [F(-2)]

Exception generated.

$$\int \frac{2x^4 - x^9}{\sqrt{-1 + x^5} (a - ax^5 + x^{10})} dx = \text{Exception raised: TypeError}$$

input `integrate((-x^9+2*x^4)/(x^5-1)^(1/2)/(x^10-a*x^5+a),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Limit: Max order reached or unable to make series expansion Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2456

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1 - x\sqrt{c + bx + ax^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-x*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2476

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{b + ax^4}(2b + 3ax^4)}{x^6(b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4+b)^(1/4)*(3*a*x^4+2*b)/x^6/(a*x^8+b),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{2,[0,1,4,1,0]%%}+%%{3,[0,1,0,0,1]%%} / %%{1,[0,0,0,1,0
]%%} Err

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2482

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{b+ax^4}(2b+3ax^4)}{x^6(b+ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4+b)^(1/4)*(3*a*x^4+2*b)/x^6/(a*x^8+b),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{2, [0,1,4,1,0]%%}+%%{3, [0,1,0,0,1]%%} / %%{1, [0,0,0,1,0]%%} Err

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2483

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x+\sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Precision problem choosing root in common_EXT, current precision 14Precision problem choosing root in common_EXT, curr

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2484

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1+x}}}{1+x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Precision problem choosing root in common_EXT, current precision 14Precision problem choosing root in common_EXT, curr

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2485

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1+x}}}{\sqrt{1+x}(1+x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(1+x)^(1/2)/(x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2511

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{x + \sqrt{1+x}}}{\sqrt{1+x}(1+x^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((x+(1+x)^(1/2))^(1/2)/(1+x)^(1/2)/(x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueDone`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2512

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt[4]{x^3+x^4}}{1+x^2+x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)*(x^4+x^3)^(1/4)/(x^4+x^2+1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:root error [1,0,0,0,1,0,0,0,1]proot error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1]proot`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2523

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)\sqrt[4]{x^3+x^4}}{1+x^2+x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)*(x^4+x^3)^(1/4)/(x^4+x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,0,1,0,0,0,1]proot error [1,0,0,0,-1,0,0,0,1]proot error [1,0,-10,0,1]proot error [1,0,-10,0,1]proot

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2524

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-b+ax^4}(b+cx^4+ax^8)}{x^6(b+2ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4-b)^(1/4)*(a*x^8+c*x^4+b)/x^6/(2*a*x^8+b),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,4,1,0]%%}+%%{1,[0,1,0,0,1]%%} / %%{1,[0,0,0,1,0]%%} Err

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2554

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{-b + ax^4}(b + cx^4 + ax^8)}{x^6(b + 2ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4-b)^(1/4)*(a*x^8+c*x^4+b)/x^6/(2*a*x^8+b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[0,1,4,1,0]%%}+%%{1,[0,1,0,0,1]%%} / %%{1,[0,0,0,1,0]%%} Err`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2555

Giac [F(-2)]

Exception generated.

$$\int \frac{(-4b + ax^4) \sqrt[4]{-b + ax^4}}{x^6(-8b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4-4*b)*(a*x^4-b)^(1/4)/x^6/(a*x^8-8*b),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{4,[0,1,4,1,0]%%}+%%{-1,[0,1,0,0,1]%%} / %%{8,[0,0,0,1,0]%%} Er`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2567

Giac [F(-2)]

Exception generated.

$$\int \frac{(-4b + ax^4) \sqrt[4]{-b + ax^4}}{x^6 (-8b + ax^8)} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^4-4*b)*(a*x^4-b)^(1/4)/x^6/(a*x^8-8*b),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{4, [0,1,4,1,0]%%}+%%{-1, [0,1,0,0,1]%%} / %%{8, [0,0,0,1,
0]%%} Er

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2568

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3 \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}}}{\sqrt{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2 x^2}{b^2}}} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3*(-a/b^2+a^2*x^2/b^2)^(1/2)/(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2638

Giac [F(-2)]

Exception generated.

$$\int \frac{x^2(-2+x^8)\sqrt[4]{2-2x^4+x^8}}{(2+x^8)(4-x^4+2x^8)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(x^2*(x^8-2)*(x^8-2*x^4+2)^(1/4)/(x^8+2)/(2*x^8-x^4+4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueDone
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2711

Giac [F(-2)]

Exception generated.

$$\int \frac{-1+x^2}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input

```
integrate((x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInv
alid _EXT
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2712

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 + x^2}{(1 + x^2) \sqrt{x + \sqrt{1 + x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2713

Giac [F(-2)]

Exception generated.

$$\int \frac{x^3}{\sqrt[3]{-x^2 + x^3} (-1 + x^6)} dx = \text{Exception raised: TypeError}$$

input `integrate(x^3/(x^3-x^2)^(1/3)/(x^6-1),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:proot error [1,0,0,1,0,0,1]proot error [1,0,0,-1,0,0,1]Invalid _EXT in replace_ext Error: Bad Argument Valueproot erro`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2752

Giac [F(-2)]

Exception generated.

$$\int \frac{(-1+x^2)^2(x+x^3)}{\sqrt{1+x^4}(1-2x^2+4x^4-2x^6+x^8)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((x^2-1)^2*(x^3+x)/(x^4+1)^(1/2)/(x^8-2*x^6+4*x^4-2*x^2+1),x, alg
orithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueNot invertible Error: Bad Argument Value
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2761

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{2b+ax^4}(-4b+ax^8)}{x^6(-4b+cx^4+ax^8)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x^4+2*b)^(1/4)*(a*x^8-4*b)/x^6/(a*x^8+c*x^4-4*b),x, algorithm
="giac")
```


output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{4,[0,1,4,1,0]%%}+%%{1,[0,1,0,0,1]%%} / %%{4,[0,0,0,1,0
]%%} Err
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2795

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt[4]{2b + ax^4}(-4b + ax^8)}{x^6(-4b + cx^4 + ax^8)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((a*x^4+2*b)^(1/4)*(a*x^8-4*b)/x^6/(a*x^8+c*x^4-4*b),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to ro
unding error%%{4,[0,1,4,1,0]%%}+%%{1,[0,1,0,0,1]%%} / %%{4,[0,0,0,1,0
]%%} Err
```

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2796

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{1 - (1+x)\sqrt{c+bx+ax^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(1-(1+x)*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2798

Giac [F(-2)]

Exception generated.

$$\int \sqrt{-\frac{a}{b^2} + \frac{a^2x^2}{b^2}} \sqrt[3]{ax^2 + bx} \sqrt{-\frac{a}{b^2} + \frac{a^2x^2}{b^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((-a/b^2+a^2*x^2/b^2)^(1/2)*(a*x^2+b*x*(-a/b^2+a^2*x^2/b^2)^(1/2))^(1/3),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx)::OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2917

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{5/2}}{c + bx} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^2+b*x+c)^(5/2)/(b*x+c),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2921

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error:
Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInv
alid _EXT

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2924

Giac [F(-2)]

Exception generated.

$$\int \frac{\sqrt{1+x}(-1+x^2)}{(1+x^2)\sqrt{x+\sqrt{1+x}}} dx = \text{Exception raised: TypeError}$$

input `integrate((1+x)^(1/2)*(x^2-1)/(x^2+1)/(x+(1+x)^(1/2))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Invalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT in replace_ext Error: Bad Argument ValueInvalid _EXT`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2925

Giac [F(-2)]

Exception generated.

$$\int \frac{abc - b^2x + a^2x^2}{\sqrt{c + bx + ax^2}(c + bx^2)} dx = \text{Exception raised: TypeError}$$

input `integrate((a^2*x^2+a*b*c-b^2*x)/(a*x^2+b*x+c)^(1/2)/(b*x^2+c),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT>Error: Bad Argument Type`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 2931

Giac [F(-2)]

Exception generated.

$$\int \frac{(c + bx + ax^2)^{3/2}}{1 - x\sqrt{c + bx + ax^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a*x^2+b*x+c)^(3/2)/(1-x*(a*x^2+b*x+c)^(1/2)),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3031

Giac [F(-2)]

Exception generated.

$$\int \frac{1}{\sqrt{c + bx + ax^2} (c^3 + a^3 b^3 x^3)} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x^2+b*x+c)^(1/2)/(a^3*b^3*x^3+c^3),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const
index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3052

Giac [F(-2)]

Exception generated.

$$\int \sqrt{\frac{-1 + ax - 2x^2 + 2ax^3 - x^4 + ax^5}{1 + ax - 2x^2 - 2ax^3 + x^4 + ax^5}} dx = \text{Exception raised: TypeError}$$

input `integrate(((a*x^5+2*a*x^3-x^4+a*x-2*x^2-1)/(a*x^5-2*a*x^3+x^4+a*x-2*x^2+1))^(1/2),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:IN PUT:sage2:=int(sage0,sageVARx):;OUTPUT:sym2poly/r2sym(const gen & e,const index_m & i,const vecteur & l) Error: Bad Argument Value`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3055

Giac [F(-2)]

Exception generated.

$$\int \frac{x(2x^3c_3 - c_4)}{(-x + x^3c_3 + c_4) \sqrt[3]{\frac{xc_0 + x^3c_3 + c_4}{xc_1 + x^3c_3 + c_4}} (x^2 + x^4c_3 + x^6c_3^2 + xc_4 + 2x^3c_3c_4 + c_4^2)} dx$$

= Exception raised: AttributeError

input `integrate(x*(2*_C3*x^3-_C4)/(_C3*x^3+_C4-x)/((*_C3*x^3+_C0*x+_C4)/(_C3*x^3+_C1*x+_C4))^(1/3)/(_C3^2*x^6+2*_C3*_C4*x^3+_C3*x^4+_C4^2+_C4*x+x^2),x, algorithm="giac")`

output `Exception raised: AttributeError >> type`

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3125

Giac [F(-2)]

Exception generated.

$$\int \frac{c_8 + xc_9}{\sqrt{c_4 + \sqrt{\frac{c_0+xc_1}{c_2+xc_3}}c_5}(c_6 + xc_7)} dx = \text{Exception raised: TypeError}$$

input `integrate((_C9*x+_C8)/(_C4+((_C1*x+_C0)/(_C3*x+_C2))^(1/2)*_C5)^(1/2)/(_C7*x+_C6),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Warning, need to choose a branch for the root of a polynomial with parameters. This might be wrong.Non regular value [

input file name test_cases/extra_tests/366_Blake_1

Test file number 366

Integral number in file 3150

Giac [F(-2)]

Exception generated.

$$\int \frac{2a(-b^3 + 2\sqrt{2}a^2bx^2)}{b^4 - a^2b^2x^2 + \sqrt{2}a^4x^4} dx = \text{Exception raised: TypeError}$$

input `integrate(2*a*(-b^3+2*2^(1/2)*a^2*b*x^2)/(b^4-a^2*b^2*x^2+2^(1/2)*a^4*x^4),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to rounding error%%{1,[16]%%}+%%{%%{%%{[-681148277399173791970,5844447570846596707587

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 1

Giac [F(-2)]

Exception generated.

$$\int \frac{3x^3 \left(-16 + 20 \cdot 2^{3/4} \sqrt[4]{3} - 8 \sqrt[4]{23^{3/4}} - 12\sqrt{6} + \left(36 + 12 \cdot 2^{3/4} \sqrt[4]{3} + 18 \sqrt[4]{23^{3/4}} - 30\sqrt{6} \right) x^2 + \left(-54 - 18 \cdot 2^{3/4} \sqrt[4]{3} + 30 \cdot 2^{1/4} \sqrt[4]{3} - 12 \cdot 6^{1/2} \right) x^4 + \left(-30 + 9 \cdot 2^{3/4} \sqrt[4]{3} + 4 \cdot 2^{1/4} \sqrt[4]{3} - 6 \cdot 6^{1/2} \right) x^6 \right)}{19 \left(\sqrt{6} - \sqrt[4]{23^{3/4}} x^2 + 3x^4 \right)^3}$$

input

```
integrate(3/19*x^3*(-16+20*2^(3/4)*3^(1/4)-8*2^(1/4)*3^(3/4)-12*6^(1/2)+(36+12*2^(3/4)*3^(1/4)+18*2^(1/4)*3^(3/4)-30*6^(1/2))*x^2+(-54-18*2^(3/4)*3^(1/4)+30*2^(1/4)*3^(3/4)-12*6^(1/2))*x^4+(-30+9*2^(3/4)*3^(1/4)+4*2^(1/4)*3^(3/4)+6*6^(1/2))*x^6)/(6^(1/2)-2^(1/4)*3^(3/4)*x^2+3*x^4)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{133056,[12]%%}+%%{%%{[-459,0,0,0,12717,0,0,0,193023,0,0,0,360639]
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 5

Giac [F(-2)]

Exception generated.

$$\int \frac{2\sqrt{3}x \left(-8\sqrt{6} + 16\sqrt{2 - \sqrt{3}} + 8\sqrt{3(2 - \sqrt{3})} - 8\sqrt{2(2 - \sqrt{3})}x^2 - 6\sqrt{2}x^4 + 2\sqrt{6}x^4 + 12\sqrt{2 - \sqrt{3}}x^4 \right)}{(2 + 2\sqrt{3} - 2\sqrt{2}x^2 + x^4)^2 \left(-4\sqrt{3} + 4\sqrt{3(2 - \sqrt{3})}x^2 - 3 \right)}$$

= Exception raised: TypeError

input

```
integrate(2*3^(1/2)*x*(-4*6^(1/2)+4*2^(1/2)-8*(3^(1/2)-1)*x^2-6*2^(1/2)*x^4+2*6^(1/2)*x^4+12*(1/2*6^(1/2)-1/2*2^(1/2))*x^4+4*(3/2*2^(1/2)-1/2*6^(1/2))*x^4-4*(3^(1/2)-1)*x^6+(1/2*6^(1/2)-1/2*2^(1/2))*x^8)/(2+2*3^(1/2)-2*2^(1/2)*x^2+x^4)^2/(-4*3^(1/2)+4*(3/2*2^(1/2)-1/2*6^(1/2))*x^2-3*x^4+3^(1/2)*x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT: *** Warning: increasing stack size to 4096000. *** Warning: increasing stack size to 4096000. *** Warning: i
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 7

Giac [F(-2)]

Exception generated.

$$\int \frac{-\sqrt{3} + x + 4\sqrt{2}x + 2\sqrt{3}x^2 - 2\sqrt{6}x^2 + 2\sqrt{2}x^3}{1 - 2\sqrt{3}x + 2x^2 + \sqrt{3}x^3 + \sqrt{2}x^4} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-3^(1/2)+x+4*2^(1/2)*x+2*3^(1/2)*x^2-2*6^(1/2)*x^2+2*2^(1/2)*x^3)/(1-2*3^(1/2)*x+2*x^2+3^(1/2)*x^3+2^(1/2)*x^4),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx);OUTPUT:Precision problem choosing root in common_EXT, current precision 14Precision problem choosing root in common_EXT, curr
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 8

Giac [F(-2)]

Exception generated.

$$\int \frac{-1 - x + 4\sqrt{2}x + 2x^2 - 2\sqrt{2}x^2 + 2\sqrt{2}x^3}{1 - 2x + x^3 + \sqrt{2}x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-1-x+4*2^(1/2)*x+2*x^2-2*2^(1/2)*x^2+2*2^(1/2)*x^3)/(1-2*x+x^3+2^(1/2)*x^4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to divide, perhaps due to rounding error%%{1,0}: [1,0,-2]%%}, [4]%%}+%%{1,[3]%%}+%%{-2,[1]%%}+%%{1,[0]`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 9

Giac [F(-2)]

Exception generated.

$$\int \frac{-10 - 7x + 4x^2}{x - 3x^2 + 3x^3 + 2x^4} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((4*x^2-7*x-10)/(2*x^4+3*x^3-3*x^2+x),x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: -10*ln(abs(sageVARx))+((7/221184*rootof([[-3,0,8640,0,-5308416],[1,0,-3456,0,2985984,0,254803968]])-162)/(6*(1/2654208*rootof([[-3,0,8640,0,-5308416],[1,0,-3456,0,2985984,`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 16

Giac [F(-2)]

Exception generated.

$$\int \frac{-16(105 - 10\sqrt{21})x - 2352\sqrt{21}x^3 - 2352\sqrt{21}x^5}{16 + (896 - 480\sqrt{21})x^2 + (1708 - 560\sqrt{21})x^4 - 588(14 + 5\sqrt{21})x^6 + 21609x^8} dx$$

= Exception raised: TypeError

input

```
integrate((-16*(105-10*21^(1/2))*x-2352*21^(1/2)*x^3-2352*21^(1/2)*x^5)/(16+(896-480*21^(1/2))*x^2+(1708-560*21^(1/2))*x^4-588*(14+5*21^(1/2))*x^6+21609*x^8),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueUnable to find common minimal polynomial Error: Bad
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 34

Giac [F(-2)]

Exception generated.

$$\int \frac{-43 - 27\sqrt{3} + (110 + 73\sqrt{3})x^2 + (67 + 46\sqrt{3})x^4 + (19 + 8\sqrt{3})x^6}{(1 + (2 + \sqrt{3})x^2 + x^4)^2} dx$$

= Exception raised: TypeError

input

```
integrate((-43-27*3^(1/2)+(110+73*3^(1/2))*x^2+(67+46*3^(1/2))*x^4+(19+8*3^(1/2))*x^6)/(1+(2+3^(1/2))*x^2+x^4)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx)::OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueFrancis algorithm failure for[-1.0,0.0,infinity,infi
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 37

Giac [F(-2)]

Exception generated.

$$\int \frac{-43 - 27\sqrt{3} + (110 + 73\sqrt{3})x^2 + (67 + 46\sqrt{3})x^4 + (19 + 8\sqrt{3})x^6}{(1 + (2 + \sqrt{3})x^2 + x^4)^2} dx$$

= Exception raised: TypeError

input

```
integrate((-43-27*3^(1/2)+(110+73*3^(1/2))*x^2+(67+46*3^(1/2))*x^4+(19+8*3^(1/2))*x^6)/(1+(2+3^(1/2))*x^2+x^4)^2,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueFrancis algorithm failure for[-1.0,0.0,infinity,infi
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 39

Giac [F(-2)]

Exception generated.

$$\int \frac{27\sqrt{3} + (-108 - 54\sqrt{3})x + (81 + 54\sqrt{3})x^2 - 36x^3 + (18 + 3\sqrt{3})x^4 - 18\sqrt{3}x^5 + (9 - 12\sqrt{3})x^6 + 3}{(3\sqrt{3} - 6x + \sqrt{3}x^2 + x^4)^3}$$

= Exception raised: TypeError

input

```
integrate((27*3^(1/2)+(-108-54*3^(1/2))*x+(81+54*3^(1/2))*x^2-36*x^3+(18+3*3^(1/2))*x^4-18*3^(1/2)*x^5+(9-12*3^(1/2))*x^6+3*3^(1/2)*x^8+2*3^(1/2)*x^9+x^10)/(3*3^(1/2)-6*x+3^(1/2)*x^2+x^4)^3,x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[1084716759416832,13101256450146816]:[1,0,-3]%%},[4]%%
}+%%{%%{
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 40

Giac [F(-2)]

Exception generated.

$$\int \frac{-500 + 192\sqrt{7} + 952x + 360\sqrt{7}x + 672x^2 + 252\sqrt{7}x^2 + 196x^3 + 84\sqrt{7}x^3 + 49x^4}{(16 - 6\sqrt{7} + 14x + 6\sqrt{7}x + 7x^2)^2 (2\sqrt{7} + 630x + 238\sqrt{7}x + 147x^2 + 56\sqrt{7}x^2)} dx$$

= Exception raised: TypeError

input

```
integrate((-500+192*7^(1/2)+952*x+360*7^(1/2)*x+672*x^2+252*7^(1/2)*x^2+19
6*x^3+84*7^(1/2)*x^3+49*x^4)/(16-6*7^(1/2)+14*x+6*7^(1/2)*x+7*x^2)^2/(2*7^
(1/2)+630*x+238*7^(1/2)*x+147*x^2+56*7^(1/2)*x^2),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to divide, perhaps due to ro
unding error%%{%%{[-168,0]:[1,0,-7]%%},[2]%%}+%%{%%{[-336,-1008]:[1,0,-
7]%%},[1]
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 44

Giac [F(-2)]

Exception generated.

$$\int \frac{624x^3 + 144x^7 + 24x^{11}}{(-460 - 936x^4 - 376x^8 - 36x^{12} - x^{16})^2} dx = \text{Exception raised: TypeError}$$

input `integrate((24*x^11+144*x^7+624*x^3)/(-x^16-36*x^12-376*x^8-936*x^4-460)^2, x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to find common minimal polynomial Error: Bad Argument ValueUnable to find common minimal polynomial Error: Bad`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 46

Giac [F(-2)]

Exception generated.

$$\int \frac{5000\sqrt{5}(1000\sqrt{3} - 750\sqrt{5})x + 5000\sqrt{5}(-5250\sqrt{3} - 3150\sqrt{5})x^3 + 65625000}{-1937500 + 500000\sqrt{15} + (3125000 - 625000\sqrt{15})x^2 + (-88750000 - 4062500\sqrt{15})x^4 + (164062500 + 32812500\sqrt{15})x^6 - 172265625x^8} dx = \text{Exception raised: TypeError}$$

input `integrate((5000*5^(1/2)*(1000*3^(1/2)-750*5^(1/2))*x+5000*5^(1/2)*(-5250*3^(1/2)-3150*5^(1/2))*x^3+65625000*15^(1/2)*x^5)/(-1937500+500000*15^(1/2)+(3125000-625000*15^(1/2))*x^2+(-88750000-4062500*15^(1/2))*x^4+(164062500+32812500*15^(1/2))*x^6-172265625*x^8),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT: *** Warning: increasing stack size to 4096000.Francis algorithm failure for[-1.0,0.0,infinity,infinity,infinity]pr`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 49

Giac [F(-2)]

Exception generated.

$$\int \frac{3\sqrt{7} + 6\sqrt{11} + (-121\sqrt{105} - 98\sqrt{165})x^4}{-12\sqrt{15} + 10200x^4 - 118580\sqrt{15}x^8} dx = \text{Exception raised: TypeError}$$

input

```
integrate((3*7^(1/2)+6*11^(1/2)+(-121*105^(1/2)-98*165^(1/2))*x^4)/(-12*15^(1/2)+10200*x^4-118580*15^(1/2)*x^8),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Unable to divide, perhaps due to rounding error%%{%%{[1274,0,-1480290,0,427747950,0,-19021101750,0]:[1,0,-1140,0,3163
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 50

Giac [F(-2)]

Exception generated.

$$\int \frac{15x - 2\sqrt{3}x + 12\sqrt{3}x^3 + 3\sqrt{3}x^5}{-4 - 20x^2 + 60\sqrt{3}x^2 - 100x^4 + 10\sqrt{3}x^4 + 12x^6 + 60\sqrt{3}x^6 - 36x^8} dx = \text{Exception raised: TypeError}$$

input

```
integrate((15*x-2*3^(1/2)*x+12*3^(1/2)*x^3+3*3^(1/2)*x^5)/(-4-20*x^2+60*3^(1/2)*x^2-100*x^4+10*3^(1/2)*x^4+12*x^6+60*x^6*3^(1/2)-36*x^8),x, algorithm="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polyn
omial Error: Bad Argument ValueUnable to find common minimal polynomial Er
ror: Bad
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 53

Giac [F(-2)]

Exception generated.

$$\int \frac{8(15 - 2\sqrt{3})x + 96\sqrt{3}x^3 + 24\sqrt{3}x^5}{-4 + (-20 + 60\sqrt{3})x^2 + (-100 + 10\sqrt{3})x^4 + (12 + 60\sqrt{3})x^6 - 36x^8} dx$$

= Exception raised: TypeError

input

```
integrate((8*(15-2*3^(1/2))*x+96*3^(1/2)*x^3+24*3^(1/2)*x^5)/(-4+(-20+60*3
^(1/2))*x^2+(-100+10*3^(1/2))*x^4+(12+60*3^(1/2))*x^6-36*x^8),x, algorithm
="giac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polyn
omial Error: Bad Argument ValueUnable to find common minimal polynomial Er
ror: Bad
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 55

Giac [F(-2)]

Exception generated.

$$\int \frac{-80(-3 + 2\sqrt{3})x - 80(3 - 2\sqrt{3})x^3 - 80(90 + 30\sqrt{3})x^5 - 960\sqrt{3}x^7}{14 - 8\sqrt{3} + (-28 + 20\sqrt{3})x^2 + (-1110 - 418\sqrt{3})x^4 + (296 - 268\sqrt{3})x^6 + (434 - 2401\sqrt{3})x^8 + (204 - 828\sqrt{3})x^{10} + (-324 - 468\sqrt{3})x^{12} - 432x^{14} + 648x^{16}}$$

= Exception raised: TypeError

input `integrate((-80*(-3+2*3^(1/2))*x-80*(3-2*3^(1/2))*x^3-80*(90+30*3^(1/2))*x^5-960*3^(1/2)*x^7-7440*3^(1/2)*x^9-1440*3^(1/2)*x^11)/(14-8*3^(1/2)+(-28+20*3^(1/2))*x^2+(-1110-418*3^(1/2))*x^4+(296-268*3^(1/2))*x^6+(434-2401*3^(1/2))*x^8+(204-828*3^(1/2))*x^10+(-324-468*3^(1/2))*x^12-432*x^14+648*x^16),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT:Francis algorithm failure for[infinity,infinity,infinity,infinity,infinity]proot error [undef,undef,undef,undef,undef]`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 56

Giac [F(-2)]

Exception generated.

$$\int \frac{-16(3 - 2\sqrt{3})x - 16(15 - 10\sqrt{3})x^3 - 16(90 + 30\sqrt{3})x^5 + 960\sqrt{3}x^7}{14 - 8\sqrt{3} + (140 - 100\sqrt{3})x^2 + (1578 + 158\sqrt{3})x^4 + (440 - 820\sqrt{3})x^6 + (1682 + 1343\sqrt{3})x^8 + (-2580 - 540\sqrt{3})x^{10} + (3132 - 468\sqrt{3})x^{12} - 2160x^{14} + 648x^{16}}$$

= Exception raised: TypeError

input `integrate((-16*(3-2*3^(1/2))*x-16*(15-10*3^(1/2))*x^3-16*(90+30*3^(1/2))*x^5+960*3^(1/2)*x^7+240*3^(1/2)*x^9-1440*3^(1/2)*x^11)/(14-8*3^(1/2)+(140-100*3^(1/2))*x^2+(1578+158*3^(1/2))*x^4+(440-820*3^(1/2))*x^6+(1682+1343*3^(1/2))*x^8+(-2580-540*3^(1/2))*x^10+(3132-468*3^(1/2))*x^12-2160*x^14+648*x^16),x, algorithm="giac")`

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Francis algorithm failure for[infin
ity,0.0,infinity,infinity,infinity]root error [undef,0.0,undef,undef,unde
f]root e
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 57

Giac [F(-2)]

Exception generated.

$$\int \frac{8(3 - 2\sqrt{3})x + 24\sqrt{3}x^5}{-28 + 16\sqrt{3} + (-20 + 20\sqrt{3})x^2 + (-148 - 22\sqrt{3})x^4 + (60 + 60\sqrt{3})x^6 - 36x^8} dx$$

= Exception raised: TypeError

input

```
integrate((8*(3-2*3^(1/2))*x+24*3^(1/2)*x^5)/(-28+16*3^(1/2)+(-20+20*3^(1/
2))*x^2+(-148-22*3^(1/2))*x^4+(60+60*3^(1/2))*x^6-36*x^8),x, algorithm="gi
ac")
```

output

```
Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Unable to find common minimal polyn
omial Error: Bad Argument ValueUnable to find common minimal polynomial Er
ror: Bad
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 58

Giac [F(-2)]

Exception generated.

$$\int \frac{x(-1 + 2x^2 + x^4)}{1 + 2x^2 + 5x^4 + 4x^6 + x^8} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(x^4+2*x^2-1)/(x^8+4*x^6+5*x^4+2*x^2+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:Francis algorithm failure for[-1.0,
infinity,infinity,infinity,infinity]prot error [1.0,infinity,infinity,inf
inity,inf

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 61

Giac [F(-2)]

Exception generated.

$$\int \frac{16x^3 - 248x^{11} + 80x^{15} - 392x^{19} - 80x^{23} + 24x^{27}}{1 + 10x^4 + 26x^8 + 40x^{12} + 71x^{16} + 40x^{20} + 26x^{24} + 10x^{28} + x^{32}} dx$$

= Exception raised: TypeError

input `integrate((24*x^27-80*x^23-392*x^19+80*x^15-248*x^11+16*x^3)/(x^32+10*x^28
+26*x^24+40*x^20+71*x^16+40*x^12+26*x^8+10*x^4+1),x, algorithm="giac")`

output Exception raised: TypeError >> an error occurred running a Giac command:IN
PUT:sage2:=int(sage0,sageVARx);OUTPUT:int(sage0,sageVARx) Error: Bad Arg
ument Type

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 65

Giac [F(-2)]

Exception generated.

$$\int \frac{\left(-\sqrt[4]{2} + \sqrt{3}x + \sqrt[4]{2}x^2\right)^2}{\left(\sqrt{3} + 2\sqrt[4]{2}x\right)^3} dx = \text{Exception raised: NotImplementedError}$$

input `integrate((-2^(1/4)+3^(1/2)*x+x^2*2^(1/4))^2/(3^(1/2)+2*2^(1/4)*x)^3,x, algorithm="giac")`

output `Exception raised: NotImplementedError >> unable to parse Giac output: (root of ([[3107414276067094328724118783432456182672461636123978958372864,0,-36251401980421570635609481139600442826134612068444647200915456,0,1447356281464232130181365104903`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 80

Giac [F(-2)]

Exception generated.

$$\int \frac{-36 - 2\sqrt{6}x^2}{9\sqrt{3} + 3\sqrt{2}x^2 - x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((-36-2*6^(1/2)*x^2)/(9*3^(1/2)+3*2^(1/2)*x^2-x^4),x, algorithm="giac")`

output `Exception raised: TypeError >> an error occurred running a Giac command:INPUT:sage2:=int(sage0,sageVARx):;OUTPUT: *** Warning: increasing stack size to 4096000. *** Warning: increasing stack size to 8192000. *** Warning: i`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 98

2.4 Sympy Exceptions

Percentage of integrals which generated an exception is 0.924 %

Sympy [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: TypeError}$$

input `integrate(a**x/(b**x), x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/0_Independent_test_suites/6_Hearn_Problems

Test file number 6

Integral number in file 160

Sympy [F(-2)]

Exception generated.

$$\int a^{-x} b^{-x} (a^x - b^x)^2 dx = \text{Exception raised: TypeError}$$

input `integrate((a**x-b**x)**2/(a**x)/(b**x), x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 495

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(x**2*atan(x)/(x**2+1)**2,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 673

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(x**3*atan(x)/(x**2+1)**2,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 674

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^5 \arctan(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(x**5*atan(x)/(x**2+1)**2,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/rubi_tests/0_Independent_test_suites/11_Timofeev_Problems

Test file number 11

Integral number in file 675

Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{1}{\sqrt{2}(1+x)^2\sqrt{-i+x^2}} + \frac{1}{\sqrt{2}(1+x)^2\sqrt{i+x^2}} \right) dx = \text{Exception raised: TypeError}$$

input `integrate(1/2/(1+x)**2*2**(1/2)/(-I+x**2)**(1/2)+1/2/(1+x)**2*2**(1/2)/(I+x**2)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real I`

input file name test_cases/rubi_tests/0_Independent_test_suites/12_Welz_Problems

Test file number 12

Integral number in file 11

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 772

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-4+n} (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-4+n)/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 773

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-3+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-3+n)/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 774

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-2+n}(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-2+n)/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 775

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 777

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{1+n} (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(1+n)/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 778

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{2+n} (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(2+n)/((d*x+c)**n), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 779

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n} (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n/((b*x+a)**n), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 780

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-2-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-2-n)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 782

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-3-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-3-n)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 783

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-4-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-4-n)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 784

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-5-n}(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(-5-n)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 785

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 786

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-2-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n*(d*x+c)**(-2-n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 788

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-3-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n*(d*x+c)**(-3-n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 789

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-4-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n*(d*x+c)**(-4-n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 790

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n (c + dx)^{-5-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n*(d*x+c)**(-5-n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 791

Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{d(a + bx)}{-bc + ad} \right)^m (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*(b*x+a)/(a*d-b*c))**m*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 800

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^\pi dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**pi,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 801

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^\pi (c + dx)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**pi*(d*x+c)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c

Test file number 17

Integral number in file 802

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^m}{(a+bx)(c+dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**m/(b*x+a)/(d*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 533

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^n}{x^2(c+dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n/x**2/(d*x+c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 560

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3(a+bx)^n}{(c+dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**3*(b*x+a)**n/(d*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 561

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(a+bx)^n}{(c+dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(b*x+a)**n/(d*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 562

Sympy [F(-2)]

Exception generated.

$$\int \frac{(bx)^m(c+dx)^n}{e+fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x)**m*(d*x+c)**n/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 573

Sympy [F(-2)]

Exception generated.

$$\int x^2(a+bx)^n(c+dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(b*x+a)**n*(d*x+c)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 575

Sympy [F(-2)]

Exception generated.

$$\int x(a + bx)^n(c + dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x*(b*x+a)**n*(d*x+c)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 576

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n(c + dx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n*(d*x+c)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 577

Sympy [F(-2)]

Exception generated.

$$\int x^3(a + bx)^n(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**3*(b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 580

Sympy [F(-2)]

Exception generated.

$$\int x^2(a + bx)^n(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 581

Sympy [F(-2)]

Exception generated.

$$\int x(a + bx)^n(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x*(b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 582

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^n(c + dx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 583

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^n (c + dx)^{-n}}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**n/x**3/((d*x+c)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 586

Sympy [F(-2)]

Exception generated.

$$\int x^m (a + bx)^{1+n} (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**m*(b*x+a)**(1+n)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2

Test file number 20

Integral number in file 600

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^{1+m}(e + fx)}{(a + bx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**(1+m)*(f*x+e)/(b*x+a)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 246

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 249

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^n (e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**n/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 252

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-1+n} (e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-1+n)/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 253

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-2+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-2+n)/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 254

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-3+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-3+n)/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 255

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-4+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-4+n)/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 256

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-5+n}(e + fx)^{-n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-5+n)/((f*x+e)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 257

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**n/((b*x+a)**n), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 258

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-1+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**(-1+n)/((b*x+a)**n), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 259

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-2+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**(-2+n)/((b*x+a)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 260

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-3+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**(-3+n)/((b*x+a)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 261

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-4+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**(-4+n)/((b*x+a)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 262

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{-n}(c + dx)(e + fx)^{-5+n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*(f*x+e)**(-5+n)/((b*x+a)**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 263

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^{1-n}(c + dx)^{-2+n}(-ad + bc(3 + 2n) + 2bd(1 + n)x) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**(1-n)*(d*x+c)**(-2+n)*(-a*d+b*c*(3+2*n)+2*b*d*(1+n)*x), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c

Test file number 21

Integral number in file 264

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m}{(c + dx)(e + fx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m/(d*x+c)/(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1685

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(f*x+e)**3/((d*x+c)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1712

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(f*x+e)**2/((d*x+c)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1713

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(f*x+e)/((d*x+c)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1714

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m/((d*x+c)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1715

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m/((d*x+c)**m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1716

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-1-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-1-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1723

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-1-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-1-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1725

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1730

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1731

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-2-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1732

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-2-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-2-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1733

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1738

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1739

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-3-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1740

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-3-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-3-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1741

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1744

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1745

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1746

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1747

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-4-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1748

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^4 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1751

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1752

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1753

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1754

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-5-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1755

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{-5-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-5-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1756

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1757

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1758

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1759

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1760

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{1-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1761

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{1-m}}{(e + fx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)/(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1762

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx)^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1767

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1768

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1769

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{2-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1770

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1771

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(e + fx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1772

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(e + fx)^7} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(f*x+e)**7,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1777

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{3-m}}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(3-m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1778

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{1-n}(c + dx)^{1+n}}{bc + ad + 2bdx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(1-n)*(d*x+c)**(1+n)/(2*b*d*x+a*d+b*c), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1781

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^{1-n}(c + dx)^{1+n}}{(bc + ad + 2bdx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**(1-n)*(d*x+c)**(1+n)/(2*b*d*x+a*d+b*c)**2, x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1782

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{bc + ad + 2bdx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1785

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(bc + ad + 2bdx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1786

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(bc + ad + 2bdx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1787

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^{2-m}}{(bc + ad + 2bdx)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(2-m)/(2*b*d*x+a*d+b*c)**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1788

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1796

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1797

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1798

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^n}{e + fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1799

Sympy [F(-2)]

Exception generated.

$$\int (c+dx)^n (e+fx)^{3+n} (a(de+cf)+2adf x)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(f*x+e)**(3+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1810

Sympy [F(-2)]

Exception generated.

$$\int (c+dx)^n (e+fx)^{2+n} (a(de+cf)+2adf x)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(f*x+e)**(2+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1811

Sympy [F(-2)]

Exception generated.

$$\int (c+dx)^n (e+fx)^{1+n} (a(de+cf)+2adf x)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(f*x+e)**(1+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1812

Sympy [F(-2)]

Exception generated.

$$\int (c+dx)^n (e+fx)^n (a(de+cf)+2adf x)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(f*x+e)**n*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d

Test file number 22

Integral number in file 1813

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^n (e + fx)^{-1+n} (a(de + cf) + 2adf x)^m dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((d*x+c)**n*(f*x+e)**(-1+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 1814

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^n (e + fx)^{-2+n} (a(de + cf) + 2adf x)^m dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((d*x+c)**n*(f*x+e)**(-2+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 1815

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^n (e + fx)^{-3+n} (a(de + cf) + 2adf x)^m dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((d*x+c)**n*(f*x+e)**(-3+n)*(a*(c*f+d*e)+2*a*d*f*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d`

Test file number 22

Integral number in file 1816

Sympy [F(-2)]

Exception generated.

$$\int x(a + bx)^m (c + dx)^n (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x*(b*x+a)**m*(d*x+c)**n*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a`

Test file number 23

Integral number in file 229

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 230

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^n (g + hx)}{\sqrt{e + fx}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(h*x+g)/(f*x+e)**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a

Test file number 23

Integral number in file 231

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^3}{(e + fx)(g + hx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**3/(f*x+e)/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 117

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m (c + dx)^2}{(e + fx)(g + hx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**2/(f*x+e)/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 118

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m}{(c + dx)(e + fx)(g + hx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m/(d*x+c)/(f*x+e)/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 121

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4(e + fx)^n}{(a + bx)(c + dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4*(f*x+e)**n/(b*x+a)/(d*x+c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 123

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)^m}{(c + dx)(e + fx)(g + hx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m/(d*x+c)/(f*x+e)/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 133

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 134

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 135

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)^2 (g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)**2*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 139

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (e + fx)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(f*x+e)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 140

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{1-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(1-m)*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 144

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(f*x+e)*(h*x+g)/((d*x+c)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 145

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-1-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-1-m)*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 146

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-2-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-2-m)*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 147

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-3-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-3-m)*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 148

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^{-4-m} (e + fx)(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**(-4-m)*(f*x+e)*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 149

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (c + dx)^{-4-m} (e + fx)^m (g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**2*(d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 150

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(c + dx)^{-4-m}(e + fx)^m(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 151

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^{-4-m}(e + fx)^m(g + hx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**(-4-m)*(f*x+e)**m*(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^m(e+fx)^n}{(a+bx)(c+dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**m*(f*x+e)**n/(b*x+a)/(d*x+c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 153

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a+bx)^m(A+Bx)(c+dx)^{-m}}{e+fx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(B*x+A)/((d*x+c)**m)/(f*x+e),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b

Test file number 24

Integral number in file 154

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 179

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 185

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 186

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{9/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**(9/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 188

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n (A + Bx + Cx^2 + Dx^3)}{(a + bx)^{11/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n*(D*x**3+C*x**2+B*x+A)/(b*x+a)**(11/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 189

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (A + Bx)(c + dx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(B*x+A)*(d*x+c)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 190

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (A + Bx + Cx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(C*x**2+B*x+A),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 191

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^m (c + dx)^n (A + Bx + Cx^2 + Dx^3) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**m*(d*x+c)**n*(D*x**3+C*x**2+B*x+A),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6

Test file number 26

Integral number in file 192

Sympy [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p x^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**(1/2))**p*x**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/47_1.1.3.2_e

Test file number 47

Integral number in file 154

Sympy [F(-2)]

Exception generated.

$$\int (dx)^m (c(a + bx^2)^3)^{3/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x)**m*(c*(b*x**2+a)**3)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/49_1.1.3.2_g

Test file number 49

Integral number in file 60

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)(c + dx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)/(c+d*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 92

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^2 (c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)**2/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 93

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 123

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 124

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^{-1 - \frac{1}{n} - p} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**(-1-1/n-p),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 126

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{-1/n}}{a + bx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)/((c+d*x**n)**(1/n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 131

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{1-\frac{1}{n}}}{(a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**n)**(1-1/n)/(a+b*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 132

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{2-\frac{1}{n}}}{(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**n)**(2-1/n)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 133

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^{-2-\frac{1}{n}-p} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**(-2-1/n-p),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 134

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{-1-\frac{1}{n}}}{a + bx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**n)**(-1-1/n)/(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 139

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{-1/n}}{(a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)**2/((c+d*x**n)**(1/n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 140

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{1-\frac{1}{n}}}{(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**n)**(1-1/n)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 141

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^n)^{2-\frac{1}{n}}}{(a + bx^n)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**n)**(2-1/n)/(a+b*x**n)**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 142

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/52_1.1.3.3_c

Test file number 52

Integral number in file 143

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^{2n})^p}{(a - bx^n)(a + bx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**(2*n))**p/(a-b*x**n)/(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.3/53_1.1.3.3_d

Test file number 53

Integral number in file 5

Sympy [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p (c + d\sqrt{x})^q x^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**(1/2))**p*(c+d*x**(1/2))**q*x**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 252

Sympy [F(-2)]

Exception generated.

$$\int (a + b\sqrt{x})^p (c + d\sqrt{x})^q (ex)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**(1/2))**p*(c+d*x**(1/2))**q*(e*x)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 253

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^3 (a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**3/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 287

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^4 (a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**4/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 288

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^{7/2} (a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**(7/2)/(a+b*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 323

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3/2}(A + Bx^n)}{(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3/2)*(A+B*x**n)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 324

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{\sqrt{x}(a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**(1/2)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 326

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^{3/2} (a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**(3/2)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 327

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n}{x^{5/2} (a + bx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n)/x**(5/2)/(a+b*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 328

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n) (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**3/(a+b*x**n)/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 441

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 442

Sympy [F(-2)]

Exception generated.

$$\int \frac{x}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 443

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 444

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 445

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**2/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 446

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^3 (a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**3/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 447

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a + bx^n)(c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+2*n)/(a+b*x**n)/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 455

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+2*n)/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 456

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+2n}}{(a+bx^n)^3(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+2*n)/(a+b*x**n)**3/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 457

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+3*n)/(a+b*x**n)/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 461

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)^2(c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+3*n)/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 462

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+3n}}{(a+bx^n)^3 (c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+3*n)/(a+b*x**n)**3/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 463

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m}{(a+bx^n)^2 (c+dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 492

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-1+p)}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-1+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 495

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 500

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 501

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(3+p)}(a + bx^n)^p}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(3+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 517

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(3+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(3+p))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 518

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(2+p)}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(2+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 523

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(2+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(2+p))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 524

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(1+p)}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(p+1))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 529

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(1+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(p+1))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 530

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-np}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-n*p-1)*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 536

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-np}(a + bx^n)^p}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-n*p-1)*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 537

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-1+p)}(a + bx^n)^p}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-1+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 542

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-1+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-1+p))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 543

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-2+p)}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-2+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 549

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-2+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-2+p))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 550

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-3+p)}(a+bx^n)^p}{c+dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-3+p))*(a+b*x**n)**p/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 557

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-n(-3+p)}(a+bx^n)^p}{(c+dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-3+p))*(a+b*x**n)**p/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 558

Sympy [F(-2)]

Exception generated.

$$\int (ex)^m (a+bx^n)^p (c+dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 564

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-n(3+2p)}(a+bx^n)^p(c+dx^n)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(3+2*p))*(a+b*x**n)**p*(c+d*x**n)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 565

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-n(2+2p)}(a+bx^n)^p(c+dx^n)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(2+2*p))*(a+b*x**n)**p*(c+d*x**n)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 566

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-n(1+2p)}(a+bx^n)^p(c+dx^n)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(1+2*p))*(a+b*x**n)**p*(c+d*x**n)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 567

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-n(-1+2p)}(a+bx^n)^p(c+dx^n)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n*(-1+2*p))*(a+b*x**n)**p*(c+d*x**n)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 569

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+3n}(a+bx^n)^p(c+dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+3*n)*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 570

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+2n}(a+bx^n)^p(c+dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+2*n)*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 571

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n}(a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+n)*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 572

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-n}(a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-n)*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 574

Sympy [F(-2)]

Exception generated.

$$\int x^{-1-2n}(a+bx^n)^p(c+dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-2*n)*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.4/56_1.1.3.4_c

Test file number 56

Integral number in file 575

Sympy [F(-2)]

Exception generated.

$$\int (a+bx^n)^p(c+dx^n)^q(e+fx^n)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**q*(e+f*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 7

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q (e + fx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**q*(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 8

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 9

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx^n)^p (c + dx^n)^q}{e + fx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(c+d*x**n)**q/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/58_1.1.3.5

Test file number 58

Integral number in file 10

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n) (c + dx^n)^3}{(a + bx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)*(c+d*x**n)**3/(a+b*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 38

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 44

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 45

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^3 (c + dx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**3/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 46

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^3 (A + Bx^n)}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(a+b*x**n)**3*(A+B*x**n)/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 47

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 51

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)^2 (c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)**2/(c+d*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 52

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (A + Bx^n)}{(a + bx^n)(c + dx^n)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(A+B*x**n)/(a+b*x**n)/(c+d*x**n)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 57

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{c + dx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 60

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (a + bx^n)^p (A + Bx^n)}{(c + dx^n)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)/(c+d*x**n)**2,x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 61

Sympy [F(-2)]

Exception generated.

$$\int (ex)^m (a + bx^n)^p (A + Bx^n) (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((e*x)**m*(a+b*x**n)**p*(A+B*x**n)*(c+d*x**n)**q,x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 62

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^n}{\sqrt{a + bx^n} (c + dx^n) (e + fx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**n/(a+b*x**n)**(1/2)/(c+d*x**n)/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 63

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{2n}}{\sqrt{a + bx^n} (c + dx^n) (e + fx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(2*n)/(a+b*x**n)**(1/2)/(c+d*x**n)/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 64

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3n}}{\sqrt{a + bx^n} (c + dx^n) (e + fx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3*n)/(a+b*x**n)**(1/2)/(c+d*x**n)/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 65

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{4n}}{\sqrt{a + bx^n} (c + dx^n) (e + fx^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(4*n)/(a+b*x**n)**(1/2)/(c+d*x**n)/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 66

Sympy [F(-2)]

Exception generated.

$$\int (gx)^m (a + bx^n)^p (c + dx^n)^q (e + fx^n)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x)**m*(a+b*x**n)**p*(c+d*x**n)**q*(e+f*x**n)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int (gx)^m (a + bx^n)^p (c + dx^n)^q (e + fx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x)**m*(a+b*x**n)**p*(c+d*x**n)**q*(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int (gx)^m (a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x)**m*(a+b*x**n)**p*(c+d*x**n)**q,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int \frac{(gx)^m (a + bx^n)^p (c + dx^n)^q}{e + fx^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x)**m*(a+b*x**n)**p*(c+d*x**n)**q/(e+f*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.6/59_1.1.3.6_a

Test file number 59

Integral number in file 88

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (A + Bx^n + Cx^{2n} + Dx^{3n}) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**n)**p*(A+B*x**n+C*x**(2*n)+D*x**(3*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.7/63_1.1.3.7_c

Test file number 63

Integral number in file 70

Sympy [F(-2)]

Exception generated.

$$\int (hx)^{-1-n-np} (a + bx^n)^p (c + dx^n)^p (ac - bdx^{2n}) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x)**(-n*p-n-1)*(a+b*x**n)**p*(c+d*x**n)**p*(a*c-b*d*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 36

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^p \left(e + \frac{(bc + ad)e(1 + n + np)x^n}{ac} + \frac{bde(1 + 2n + 2np)x^{2n}}{ac} \right) dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((a+b*x**n)**p*(c+d*x**n)**p*(e+(a*d+b*c)*e*(n*p+n+1)*x**n/a/c+b*d*e*(2*n*p+2*n+1)*x**(2*n)/a/c),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 37

Sympy [F(-2)]

Exception generated.

$$\int (hx)^m (a + bx^n)^p (c + dx^n)^p \left(e + \frac{(bc + ad)e(1 + m + n + np)x^n}{ac(1 + m)} + \frac{bde(1 + m + 2n + 2np)x^{2n}}{ac(1 + m)} \right) dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((h*x)**m*(a+b*x**n)**p*(c+d*x**n)**p*(e+(a*d+b*c)*e*(n*p+m+n+1)*x**n/a/c/(1+m)+b*d*e*(2*n*p+m+2*n+1)*x**(2*n)/a/c/(1+m)),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/66_1.1.3.8_c

Test file number 66

Integral number in file 38

Sympy [F(-2)]

Exception generated.

$$\int (a + bx^n)^p (c + dx^n)^q (aAc + A(bc(1 + n(1 + p)) + ad(1 + n(1 + q)))x^n + Abd(1 + n(2 + p + q))x^{2n}) dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((a+b*x**n)**p*(c+d*x**n)**q*(a*A*c+A*(b*c*(1+n*(p+1))+a*d*(1+n*(1+q)))*x**n+A*b*d*(1+n*(2+p+q))*x**(2*n)),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/67_1.1.3.9

Test file number 67

Integral number in file 5

Sympy [F(-2)]

Exception generated.

$$\int x^m (A + Bx^2 + Cx^3) (a + bx^n)^p (c + dx^n)^q dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate(x**m*(C*x**3+B*x**2+A)*(a+b*x**n)**p*(c+d*x**n)**q,x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/68_1.1.3.10

Test file number 68

Integral number in file 6

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m (c^2 - d^2x^2)^{5/2}}{(c + dx)^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(-d**2*x**2+c**2)**(5/2)/(d*x+c)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/72_1.2.1.4

Test file number 72

Integral number in file 1170

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n}{x^2 (a + bx^2)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n/x**2/(b*x**2+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1788

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m(c+dx)^n}{a+bx^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(d*x+c)**n/(b*x**2+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1822

Sympy [F(-2)]

Exception generated.

$$\int (ex)^m(c+dx)^n(a+bx^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(d*x+c)**n*(b*x**2+a)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/73_1.2.1.5

Test file number 73

Integral number in file 1948

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^n}{x^2(a + bx^2)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**n/x**2/(b*x**2+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 220

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ex)^m(c + dx)^n}{a + bx^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(d*x+c)**n/(b*x**2+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 281

Sympy [F(-2)]

Exception generated.

$$\int (ex)^m (c + dx)^n (a + bx^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x)**m*(d*x+c)**n*(b*x**2+a)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial/75_x1_2.2_b_symbolic

Test file number 75

Integral number in file 371

Sympy [F(-2)]

Exception generated.

$$\int x^4 \left(c + d\sqrt{a + bx^2} \right)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4*(c+d*(b*x**2+a)**(1/2))**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.1_Binomial/1.1.5_Nested_general_binomial/77_1.1.5.2

Test file number 77

Integral number in file 295

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**7,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 303

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 308

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 417

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m \sqrt{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*((b*x+a)**2)**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 419

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 421

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 422

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^p (cd^2 + 2cdex + ce^2x^2)^{-p} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)**p/((c*e**2*x**2+2*c*d*e*x+c*d**2)**p),x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 446

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a^2 + 2abx + b^2x^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 451

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a^2 + 2abx + b^2x^2)^{5+p} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5+p),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/90_1.2.1.2_b

Test file number 90

Integral number in file 452

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m}{(ade + (cd^2 + ae^2)x + cde x^2)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m/(a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 388

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)**m/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/91_1.2.1.2_c

Test file number 91

Integral number in file 403

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (a + bx + cx^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+b*x+a)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.2/92_1.2.1.2_d

Test file number 92

Integral number in file 767

Sympy [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^n (1 - d^2 x^2)^{3/2}}{(1 - dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f*x+e)**n*(-d**2*x**2+1)**(3/2)/(-d*x+1)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 127

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^n (d^2 - e^2 x^2)^p}{d + ex} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**n*(-e**2*x**2+d**2)**p/(e*x+d),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/93_1.2.1.3_a

Test file number 93

Integral number in file 138

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + cx^2)}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+a)/(g*x+f)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 153

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + cx^2)^2}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+a)**2/(g*x+f)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 159

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + cx^2)}{(e + fx)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+a)/(f*x+e)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 161

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (a + cx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)**n*(c*x**2+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/95_1.2.1.3_c

Test file number 95

Integral number in file 172

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((e*x+d)**m*(g*x+f)**n/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),
x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 111

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx) (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)**m*(g*x+f)/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)
```

output

```
Exception raised: TypeError >> Invalid NaN comparison
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 114

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)**m/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 115

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{f + gx} dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((e*x+d)**m/(g*x+f)/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 116

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{(f+gx)^3} dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((e*x+d)**m/(g*x+f)**3/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m), x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 118

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m (f+gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)/(-c*e**2*x**2-b*e**2*x-b*d*e+c*d**2)**(5/2), x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 254

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (f + gx)}{(cd^2 - bde - be^2x - ce^2x^2)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)/(-c*e**2*x**2-b*e**2*x-b*d*e+c*d**2)**(7/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/97_1.2.1.3_d2

Test file number 97

Integral number in file 255

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3 (d + ex)^m}{a + bx + cx^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**3*(e*x+d)**m/(c*x**2+b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 125

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + bx + cx^2)^p}{x^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+b*x+a)**p/x**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/99_1.2.1.3_e2

Test file number 99

Integral number in file 138

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx) (a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(3/2)/(e*x+d)**12,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 146

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**7,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 163

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 168

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**13,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 169

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**14,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 170

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{17}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**17,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 173

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 260

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{3/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 261

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)(d + ex)^m \sqrt{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(e*x+d)**m*((b*x+a)**2)**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 262

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 264

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + bx)(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(5/2), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 265

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{3/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(3/2)/(e*x+d)**12,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 407

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^7} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**7,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 421

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{12}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**12,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 426

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{13}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**13,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 427

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(a^2 + 2abx + b^2x^2)^{5/2}}{(d + ex)^{14}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(b**2*x**2+2*a*b*x+a**2)**(5/2)/(e*x+d)**14,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 428

Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 507

Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^{3/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 508

Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m \sqrt{a^2 + 2abx + b^2x^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(e*x+d)**m*((b*x+a)**2)**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 509

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + Bx)(d + ex)^m}{(a^2 + 2abx + b^2x^2)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(e*x+d)**m/(b**2*x**2+2*a*b*x+a**2)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 511

Sympy [F(-2)]

Exception generated.

$$\int (A + Bx)(d + ex)^m (a^2 + 2abx + b^2x^2)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((B*x+A)*(e*x+d)**m*(b**2*x**2+2*a*b*x+a**2)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_fl

Test file number 101

Integral number in file 512

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + bx + cx^2)^{7/2}}{(d + ex)^7} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)*(c*x**2+b*x+a)**(7/2)/(e*x+d)**7,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/101_1.2.1.3_f1

Test file number 101

Integral number in file 908

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^n (a + 2cdx + cex^2)}{(d + ex)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**n*(c*e*x**2+2*c*d*x+a)/(e*x+d)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/102_1.2.1.3_f2

Test file number 102

Integral number in file 699

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + bx + cx^2)}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+b*x+a)/(g*x+f)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 412

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (a + bx + cx^2)^2}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*x**2+b*x+a)**2/(g*x+f)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 418

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^n (a + 2cdx + cex^2)}{(d + ex)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**n*(c*e*x**2+2*c*d*x+a)/(e*x+d)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 427

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (a + bx + cx^2)^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)**n*(c*x**2+b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 445

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (a + bx + cx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)**n*(c*x**2+b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 446

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(g*x+f)**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 447

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx)^n (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((e*x+d)**m*(g*x+f)**n/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),
x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 725

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (f + gx) (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx = \text{Exception raised: TypeError}$$

input

```
integrate((e*x+d)**m*(g*x+f)/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)
```

output

```
Exception raised: TypeError >> Invalid NaN comparison
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 728

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx = \text{Exception raised: TypeError}$$

input `integrate((e*x+d)**m/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 729

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{f + gx} dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((e*x+d)**m/(g*x+f)/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 730

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d+ex)^m (ade + (cd^2 + ae^2)x + cdex^2)^{-m}}{(f+gx)^3} dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((e*x+d)**m/(g*x+f)**3/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),
x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 732

Sympy [F(-2)]

Exception generated.

$$\int (d+ex)^m (cd^2eg - e(cd^2 + ae^2)g - cde^2gx)^{-1+m} (ade + (cd^2 + ae^2)x + cdex^2)^{-m} dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((e*x+d)**m*(c*d**2*e*g-e*(a*e**2+c*d**2)*g-c*d*e**2*g*x)**(-1+m)
/((a*d*e+(a*e**2+c*d**2)*x+c*d*e*x**2)**m),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.3/103_S1.6.1.f

Test file number 103

Integral number in file 739

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m (-cd^2 + bde + be^2x + ce^2x^2)^p ((-cd + be)f + (cef - cdg + beg)x + cegx^2) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*(c*e**2*x**2+b*e**2*x+b*d*e-c*d**2)**p*((b*e-c*d)*f+(b*e*g-c*d*g+c*e*f)*x+c*e*g*x**2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.1_Quadratic_trinomial/1.2.1.7/109_1.2.1.7_b

Test file number 109

Integral number in file 3

Sympy [F(-2)]

Exception generated.

$$\int x^2(a + b\sqrt{x} + cx)^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(a+b*x**(1/2)+c*x)**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 79

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b\sqrt{x} + cx)^p}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**(1/2)+c*x)**p/x**3,x)`output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 84

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b\sqrt[3]{x} + cx^{2/3})^p}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*x**(1/3)+c*x**(2/3))**p/x**3,x)`output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 100

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1-2n}}{bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1-2*n)/(b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 113

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(dx)^{5/2} (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d*x)**(5/2)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/126_1.2.3.2_c

Test file number 126

Integral number in file 206

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/127_1.2.3.3_a

Test file number 127

Integral number in file 29

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/127_1.2.3.3_a

Test file number 127

Integral number in file 30

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + cx^{2n})^p}{d + ex^n} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+c*x**(2*n))**p/(d+e*x**n), x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/127_1.2.3.3_a`

Test file number 127

Integral number in file 50

Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + (1 + \sqrt{3})x^4}{1 - x^4 + x^8} dx = \text{Exception raised: PolynomialError}$$

input `integrate((1+(1+3**(1/2))*x**4)/(x**8-x**4+1), x)`

output `Exception raised: PolynomialError >> 1/(239467000838037598029035598269032581075191976715165250684200040290318941159424*_t**88 + 138256337395873345762803423705330731641326126160751478072830556473063127384064*sqrt(3)*_t**88 - 5732624312622`

input file name `test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b`

Test file number 128

Integral number in file 49

Sympy [F(-2)]

Exception generated.

$$\int \frac{3 - 2\sqrt{3} + (-3 + \sqrt{3})x^4}{1 - x^4 + x^8} dx = \text{Exception raised: PolynomialError}$$

input `integrate((3-2*3**(1/2)+(-3+3**(1/2))*x**4)/(x**8-x**4+1),x)`

output `Exception raised: PolynomialError >> 1/(-36944369544063775196667969536*_t*
*32 + 21329841701306232282053345280*sqrt(3)*_t**32 - 167111083173036783803
087978496*sqrt(3)*_t**28 + 289444886563568182740740210688*_t**28 - 9921139
603646460044679`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 50

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_Gen-
eral_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 66

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 67

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^3 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**3/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/128_1.2.3.3_b

Test file number 128

Integral number in file 68

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 11

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 12

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 13

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^2(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**2/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 14

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 16

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 17

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 18

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{2n}}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(2*n)/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 26

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^n}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**n/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 27

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 28

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3n}}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3*n)/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 31

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{2n}}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(2*n)/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 32

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^n}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**n/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 33

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 34

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^n)^q}{a + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(d+e*x**n)**q/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 52

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^n)^q}{a + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x*(d+e*x**n)**q/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 53

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex^n)^q}{a + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d+e*x**n)**q/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 54

Sympy [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (d + ex^n)^q}{a + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f*x)**m*(d+e*x**n)**q/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 61

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^n)^2}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 135

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 139

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 140

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 141

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^n) (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**2/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 142

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^4 (d + ex^n) (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**4/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 143

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^4}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**4/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 144

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 145

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 146

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{x^2 (d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/x**2/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 147

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3n}(d + ex^n)}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3*n)*(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 149

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-2n}(d + ex^n)}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d+e*x**n)/(x**(2*n))/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 154

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3*n)/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 156

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{2n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(2*n)/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 157

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^n}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**n/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 158

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 159

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(x**n)/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 160

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-2n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(x**(2*n))/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 161

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-3n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(x**(3*n))/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 162

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{3n}}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(3*n)/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 163

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{2n}}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(2*n)/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 164

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^n}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**n/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 165

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 166

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-3n}}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(x**(3*n))/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 169

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2(d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**2*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 174

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 175

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex^n)^q}{x^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d+e*x**n)**q/x**2/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 178

Sympy [F(-2)]

Exception generated.

$$\int \frac{(fx)^m (d + ex^n)^q}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f*x)**m*(d+e*x**n)**q/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/131_1.2.3.4_c

Test file number 131

Integral number in file 182

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(d + ex^n)(a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n+C*x**(2*n))/(d+e*x**n)/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/134_1.2.3.7

Test file number 134

Integral number in file 5

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(d + ex^n)^2 (a + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n+C*x**(2*n))/(d+e*x**n)**2/(a+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/134_1.2.3.7

Test file number 134

Integral number in file 6

Sympy [F(-2)]

Exception generated.

$$\int \frac{(d + ex^n)^2 (A + Bx^n + Cx^{2n})}{a + bx^n + cx^{2n}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d+e*x**n)**2*(A+B*x**n+C*x**(2*n))/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/134_1.2.3.7

Test file number 134

Integral number in file 8

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(d + ex^n)(a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*x**n+C*x**(2*n))/(d+e*x**n)/(a+b*x**n+c*x**(2*n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/134_1.2.3.7

Test file number 134

Integral number in file 11

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + Bx^n + Cx^{2n}}{(d + ex^n)^2 (a + bx^n + cx^{2n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((A+B*x**n+C*x**(2*n))/(d+e*x**n)**2/(a+b*x**n+c*x**(2*n)),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.3_General_trinomial/134_1.2.3.7

Test file number 134

Integral number in file 12

Sympy [F(-2)]

Exception generated.

$$\int (a + x^2)^{5/2} \left(x + \sqrt{a + x^2} \right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate((x**2+a)**(5/2)*(x+(x**2+a)**(1/2))**n,x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/137_1.2.4.3

Test file number 137

Integral number in file 26

Sympy [F(-2)]

Exception generated.

$$\int (a + x^2)^{5/2} (x - \sqrt{a + x^2})^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((x**2+a)**(5/2)*(x-(x**2+a)**(1/2))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/137_1.2.4.3

Test file number 137

Integral number in file 32

Sympy [F(-2)]

Exception generated.

$$\int \left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2} \right)^{3/2} \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)**(3/2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/137_1.2.4.3

Test file number 137

Integral number in file 45

Sympy [F(-2)]

Exception generated.

$$\int \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2)*(d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/137_1.2.4.3

Test file number 137

Integral number in file 46

Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(d + ex + f \sqrt{a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2}} \right)^n}{\left(a + \frac{2dex}{f^2} + \frac{e^2x^2}{f^2} \right)^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d+e*x+f*(a+2*d*e*x/f**2+e**2*x**2/f**2)**(1/2))**n/(a+2*d*e*x/f**2+e**2*x**2/f**2)**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.2_Trinomial/1.2.4_Nested_quadratic_nomial/137_1.2.4.3

Test file number 137

Integral number in file 48

Sympy [F(-2)]

Exception generated.

$$\int (1 - (1 - 6b)^{3/2} - 9b + 54bx - 54x^2 + 108x^3)^p dx = \text{Exception raised: AttributeError}$$

input `integrate((1-(1-6*b)**(3/2)-9*b+54*b*x-54*x**2+108*x**3)**p,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/142_1.3.1

Test file number 142

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int \frac{be + 2cex + 3dex^2}{(a + bx + cx^2 + dx^3)^{5/2}} dx = \text{Exception raised: RecursionError}$$

input `integrate((3*d*e*x**2+2*c*e*x+b*e)/(d*x**3+c*x**2+b*x+a)**(5/2),x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.3_Cubic/143_1.3.2

Test file number 143

Integral number in file 107

Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 - 2\sqrt{2} + x^2)^2 (-3 + 2\sqrt{2} + x^2)}{577 - 408\sqrt{2} - 8(-41 + 29\sqrt{2})x^2 - 2(-39 + 28\sqrt{2})x^4 - 8(-1 + \sqrt{2})x^6 + x^8} dx$$

= Exception raised: PolynomialError

input

```
integrate((3-2*2**(1/2)+x**2)**2*(-3+2*2**(1/2)+x**2)/(577-408*2**(1/2)-8*
(-41+29*2**(1/2))*x**2-2*(-39+28*2**(1/2))*x**4-8*(2**(1/2)-1)*x**6+x**8),
x)
```

output

```
Exception raised: PolynomialError >> 1/(-489331912114255602061892417478047
2498117708482611714912381696*_t**4 + 3460099133069698398004476359279702930
052248019321310378430976*sqrt(2)*_t**4 - 159769239484575670917838951113184
628965915778476
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 70

Sympy [F(-2)]

Exception generated.

$$\int \frac{-3 + 2\sqrt{2} + x^2}{17 - 12\sqrt{2} + (2 - 4\sqrt{2})x^2 + x^4} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((-3+2*2**(1/2)+x**2)/(17-12*2**(1/2)+(2-4*2**(1/2))*x**2+x**4),x
)
```

output

```
Exception raised: PolynomialError >> 1/(-2304*_t**4 + 1024*sqrt(2)*_t**4 -
32*_t**2 + 64*sqrt(2)*_t**2 - 1) contains an element of the set of genera
tors.
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 97

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-3 + 2\sqrt{2})^2 - x^4}{-99 + 70\sqrt{2} + (-39 + 28\sqrt{2})x^2 + (-5 + 6\sqrt{2})x^4 - x^6} dx$$

= Exception raised: PolynomialError

input

```
integrate((( -3+2*2**(1/2) )**2-x**4)/(-99+70*2**(1/2)+(-39+28*2**(1/2))*x**2+(-5+6*2**(1/2))*x**4-x**6),x)
```

output

```
Exception raised: PolynomialError >> 1/(-16081737886952162370043412607629632108508413135104*_t**4 + 11371505913128493825344920080646098012143259495424*sqrt(2)*_t**4 - 525076531527889516631004780624192141786868300832*_t**2 + 3712851760852
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 98

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-3 + 2\sqrt{2} - x^2)(-3 + 2\sqrt{2} + x^2)}{-99 + 70\sqrt{2} + (-39 + 28\sqrt{2})x^2 + (-5 + 6\sqrt{2})x^4 - x^6} dx$$

= Exception raised: PolynomialError

input

```
integrate((-3+2*2**(1/2)-x**2)*(-3+2*2**(1/2)+x**2)/(-99+70*2**(1/2)+(-39+28*2**(1/2))*x**2+(-5+6*2**(1/2))*x**4-x**6),x)
```

output

```
Exception raised: PolynomialError >> 1/(-160817378869521623700434126076296
32108508413135104*_t**4 + 113715059131284938253449200806460980121432594954
24*sqrt(2)*_t**4 - 525076531527889516631004780624192141786868300832*_t**2
+ 3712851760852
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 99

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-3 + 2\sqrt{2})^3 - (-3 + 2\sqrt{2})^2 x^2 - (-3 + 2\sqrt{2}) x^4 + x^6}{577 - 408\sqrt{2} + (328 - 232\sqrt{2}) x^2 + (78 - 56\sqrt{2}) x^4 + (8 - 8\sqrt{2}) x^6 + x^8} dx$$

= Exception raised: PolynomialError

input

```
integrate((( -3+2*2**(1/2))**3-(-3+2*2**(1/2))**2*x**2-(-3+2*2**(1/2))*x**4
+x**6)/(577-408*2**(1/2)+(328-232*2**(1/2))*x**2+(78-56*2**(1/2))*x**4+(8-
8*2**(1/2))*x**6+x**8),x)
```

output

```
Exception raised: PolynomialError >> 1/(-489331912114255602061892417478047
2498117708482611714912381696*_t**4 + 3460099133069698398004476359279702930
052248019321310378430976*sqrt(2)*_t**4 - 159769239484575670917838951113184
628965915778476
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 100

Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 - 2\sqrt{2} + x^2)^2 (-3 + 2\sqrt{2} + x^2)}{577 - 408\sqrt{2} + (328 - 232\sqrt{2})x^2 + (78 - 56\sqrt{2})x^4 + (8 - 8\sqrt{2})x^6 + x^8} dx$$

= Exception raised: PolynomialError

input

```
integrate((3-2*2**(1/2)+x**2)**2*(-3+2*2**(1/2)+x**2)/(577-408*2**(1/2)+(328-232*2**(1/2))*x**2+(78-56*2**(1/2))*x**4+(8-8*2**(1/2))*x**6+x**8),x)
```

output

```
Exception raised: PolynomialError >> 1/(-4893319121142556020618924174780472498117708482611714912381696*_t**4 + 3460099133069698398004476359279702930052248019321310378430976*sqrt(2)*_t**4 - 159769239484575670917838951113184628965915778476
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.5_Polynomial/147_1.7.2

Test file number 147

Integral number in file 101

Sympy [F(-2)]

Exception generated.

$$\int \sqrt{\frac{1}{x}} \sqrt{x} \sqrt{a + bx} dx = \text{Exception raised: RecursionError}$$

input

```
integrate((1/x)**(1/2)*x**(1/2)*(b*x+a)**(1/2),x)
```

output

```
Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object
```

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 469

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{-1 + \frac{1}{x}} \sqrt{\frac{1}{x}} \sqrt{x}}{\sqrt{1+x}} dx = \text{Exception raised: RecursionError}$$

input `integrate((-1+1/x)**(1/2)*(1/x)**(1/2)*x**(1/2)/(1+x)**(1/2), x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/149_1.6.1

Test file number 149

Integral number in file 536

Sympy [F(-2)]

Exception generated.

$$\int x^5 (c + dx^2 + e\sqrt{a + bx^2})^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**5*(c+d*x**2+e*(b*x**2+a)**(1/2))**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 23

Sympy [F(-2)]

Exception generated.

$$\int x^3 (c + dx^2 + e\sqrt{a + bx^2})^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**3*(c+d*x**2+e*(b*x**2+a)**(1/2))**p,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 24

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx^2 + e\sqrt{a + bx^2})^p}{x^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((c+d*x**2+e*(b*x**2+a)**(1/2))**p/x**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/1_Algebraic_functions/1.6_Miscellaneous/152_1.6.5

Test file number 152

Integral number in file 27

Sympy [F(-2)]

Exception generated.

$$\int a^x b^{-x} dx = \text{Exception raised: TypeError}$$

input `integrate(a**x/(b**x), x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 491

Sympy [F(-2)]

Exception generated.

$$\int F^{f(a+b \log^2(c+ex^n))} (g+hx)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(F**(f*(a+b*ln(c*(e*x+d)**n)**2))*(h*x+g)**m, x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 517

Sympy [F(-2)]

Exception generated.

$$\int F^{f(a+b\log(c(d+ex)^n))^2} (g+hx)^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(F**(f*(a+b*ln(c*(e*x+d)**n))**2)*(h*x+g)**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 532

Sympy [F(-2)]

Exception generated.

$$\int 2^{2+3x} 3^{5+7x} dx = \text{Exception raised: IndexError}$$

input `integrate(2**(2+3*x)*3**(5+7*x),x)`

output `Exception raised: IndexError >> Index out of range: a[1]`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 707

Sympy [F(-2)]

Exception generated.

$$\int 2^{2+3x} 3^{5+7x} 5^{11+13x} dx = \text{Exception raised: IndexError}$$

input `integrate(2**(2+3*x)*3**(5+7*x)*5**(11+13*x),x)`

output `Exception raised: IndexError >> Index out of range: a[1]`

input file name test_cases/rubi_tests/2_Exponentials/155_2_Exponential_functions

Test file number 155

Integral number in file 710

Sympy [F(-2)]

Exception generated.

$$\int F^{c(a+bx)}(d+ex)^{-m} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(F**((b*x+a)*c)/((e*x+d)**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/156_2.1

Test file number 156

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*atanh(a*x))*(-a*c*x+c)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 286

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a**2*x**2+1)**(1/2)/(c-c/a/x),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 522

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n \operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2 x^2}\right)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*atanh(a*x))/(c-c/a**2/x**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/163_2.5.3

Test file number 163

Integral number in file 785

Sympy [F(-2)]

Exception generated.

$$\int e^{n \operatorname{coth}^{-1}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*acoth(a*x))*(-a*c*x+c)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 291

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n \coth^{-1}(ax)}}{(c - acx)^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*acoth(a*x))/(-a*c*x+c)**(7/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/164_2.5.4

Test file number 164

Integral number in file 297

Sympy [F(-2)]

Exception generated.

$$\int e^{n \operatorname{arctanh}(ax)} (c - acx)^{5/2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*atanh(a*x))*(-a*c*x+c)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 271

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\operatorname{arctanh}(ax)}}{c - \frac{c}{ax}} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a*x+1)*(-a**2*x**2+1)**(1/2)/(c-c/a/x),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 507

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{n\operatorname{arctanh}(ax)}}{\left(c - \frac{c}{a^2x^2}\right)^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(exp(n*atanh(a*x))/(c-c/a**2/x**2)**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/2_Exponentials/2.5/167_x2.5.3

Test file number 167

Integral number in file 770

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(d\sqrt{-\frac{e}{d}}+ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(2*x*(d*(-e/d)**(1/2)+e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 40

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(d\sqrt{-\frac{e}{d}}-ex)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(-2*x*(d*(-e/d)**(1/2)-e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 41

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}+ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(ln(2*x*(d*e**(1/2)/(-d)**(1/2)+e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 42

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x\left(\frac{d\sqrt{e}}{\sqrt{-d}}-ex\right)}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(ln(-2*x*(d*e**(1/2)/(-d)**(1/2)-e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 43

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{2x(\sqrt{d}\sqrt{-e+ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(ln(2*x*(d**(1/2)*(-e)**(1/2)+e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 44

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(-\frac{2x(\sqrt{d}\sqrt{-e-ex})}{d+ex^2}\right)}{d+ex^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(ln(-2*x*(d**(1/2)*(-e)**(1/2)-e*x)/(e*x**2+d))/(e*x**2+d),x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 45

Sympy [F(-2)]

Exception generated.

$$\int \log^2(1+x+x^2) dx = \text{Exception raised: RecursionError}$$

input `integrate(ln(x**2+x+1)**2,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 99

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log^2(-1+x+x^2)}{x^3} dx = \text{Exception raised: RecursionError}$$

input `integrate(ln(x**2+x-1)**2/x**3,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object`

input file name test_cases/rubi_tests/3_Logarithms/168_3_Logarithm_functions

Test file number 168

Integral number in file 100

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c\sqrt{x}))^p}{x^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*ln(c*x**(1/2)))**p/x**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/169_3.1

Test file number 169

Integral number in file 190

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+n} \log(ex^n)}{1 - ex^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+n)*ln(e*x**n)/(1-e*x**n),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 343

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+n} \log\left(\frac{x^n}{d}\right)}{d - x^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+n)*ln(x**n/d)/(d-x**n),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 344

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+n} \log\left(-\frac{ex^n}{d}\right)}{d + ex^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+n)*ln(-e*x**n/d)/(d+e*x**n),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 345

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(cx^n)}{x(c - x^{-n})} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))/x/(c-x**(-n)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 418

Sympy [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^3 (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)**m*(d+e*x**r)**3*(a+b*ln(c*x**n)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 438

Sympy [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r)^2 (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)**m*(d+e*x**r)**2*(a+b*ln(c*x**n)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 439

Sympy [F(-2)]

Exception generated.

$$\int (fx)^m (d + ex^r) (a + b \log(cx^n)) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)**m*(d+e*x**r)*(a+b*ln(c*x**n)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/170_3.2

Test file number 170

Integral number in file 440

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^4 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))**4*ln(d*(1/d+f*x**m))/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 70

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))**3*ln(d*(1/d+f*x**m))/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 71

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))**2*ln(d*(1/d+f*x**m))/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 72

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(\frac{1}{d} + fx^m))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))*ln(d*(1/d+f*x**m))/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 73

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^3 \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))**3*ln(d*(e+f*x**m)**r)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 145

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n))^2 \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))**2*ln(d*(e+f*x**m)**r)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 146

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^r)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))*ln(d*(e+f*x**m)**r)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 147

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*x**n))*ln(d*(e+f*x**m)**k)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/171_3.3

Test file number 171

Integral number in file 153

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^4 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**4*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 147

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 148

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (A + B \log(e(a + bx)^n (c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 149

Sympy [F(-2)]

Exception generated.

$$\int (a + bx) (A + B \log(e(a + bx)^n (c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 150

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \log(e(a + bx)^n(c + dx)^{-n})}{(a + bx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))/(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log(e(a + bx)^n(c + dx)^{-n}))^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 156

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 157

Sympy [F(-2)]

Exception generated.

$$\int (a + bx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 158

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^3 (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 164

Sympy [F(-2)]

Exception generated.

$$\int (a + bx)^2 (A + B \log(e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 165

Sympy [F(-2)]

Exception generated.

$$\int (a + bx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*x+a)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))*3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 166

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^4 (A + B \log (e(a + bx)^n (c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)**4*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 293

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^3 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)**3*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 294

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 295

Sympy [F(-2)]

Exception generated.

$$\int (g + hx) (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 296

Sympy [F(-2)]

Exception generated.

$$\int (A + B \log(e(a + bx)^n(c + dx)^{-n})) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 297

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \log(e(a + bx)^n(c + dx)^{-n})}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 298

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 303

Sympy [F(-2)]

Exception generated.

$$\int (g + hx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 304

Sympy [F(-2)]

Exception generated.

$$\int (A + B \log (e(a + bx)^n (c + dx)^{-n}))^2 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 305

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + B \log(e(a + bx)^n(c + dx)^{-n}))^2}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n))**2/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 306

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^2 (A + B \log(e(a + bx)^n(c + dx)^{-n}))^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**2*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n))**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 309

Sympy [F(-2)]

Exception generated.

$$\int (g + hx) (A + B \log (e(a + bx)^n (c + dx)^{-n}))^3 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((h*x+g)*(A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 310

Sympy [F(-2)]

Exception generated.

$$\int (A + B \log (e(a + bx)^n (c + dx)^{-n}))^3 dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 311

Sympy [F(-2)]

Exception generated.

$$\int \frac{(A + B \log(e(a + bx)^n(c + dx)^{-n}))^3}{g + hx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((A+B*ln(e*(b*x+a)**n/((d*x+c)**n)))**3/(h*x+g),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/172_3.4

Test file number 172

Integral number in file 312

Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^3 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n)))**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 212

Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 213

Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^m (ci + dix)^{-2-m} \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)*(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 214

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^m (ci + dix)^{-2-m}}{A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)/(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 215

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^m (ci + dix)^{-2-m}}{\left(A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right) \right)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*g*x+a*g)**m*(d*i*x+c*i)**(-2-m)/(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 216

Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right)^2 dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m*(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 219

Sympy [F(-2)]

Exception generated.

$$\int (ag + bgx)^{-2-m} (ci + dix)^m \left(A + B \log \left(e \left(\frac{a + bx}{c + dx} \right)^n \right) \right) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m*(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 220

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^{-2-m}(ci + dix)^m}{A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m/(A+B*ln(e*((b*x+a)/(d*x+c))**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 221

Sympy [F(-2)]

Exception generated.

$$\int \frac{(ag + bgx)^{-2-m}(ci + dix)^m}{\left(A + B \log \left(e \left(\frac{a+bx}{c+dx} \right)^n \right) \right)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((b*g*x+a*g)**(-2-m)*(d*i*x+c*i)**m/(A+B*ln(e*((b*x+a)/(d*x+c))**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/173_3.5

Test file number 173

Integral number in file 222

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(e(f(a+bx)^p(c+dx)^q)^r)}{(a+bx)^2} dx = \text{Exception raised: NotImplementedError}$$

input `integrate(ln(e*(f*(b*x+a)**p*(d*x+c)**q)**r)/(b*x+a)**2,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 12

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(e(f(a+bx)^p(c+dx)^q)^r)}{(a+bx)^5} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(ln(e*(f*(b*x+a)**p*(d*x+c)**q)**r)/(b*x+a)**5,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 15

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(1 - \frac{a+bx}{c+dx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(1-(b*x+a)/(d*x+c))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 72

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(1 - \frac{c+dx}{a+bx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(1-(d*x+c)/(b*x+a))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 73

Sympy [F(-2)]

Exception generated.

$$\int \left(\frac{1}{(c+dx)(-a+c+(-b+d)x) \log\left(\frac{a+bx}{c+dx}\right)} + \frac{\log\left(1 - \frac{a+bx}{c+dx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} \right) dx$$

= Exception raised: TypeError

input `integrate(1/(d*x+c)/(-a+c+(-b+d)*x)/ln((b*x+a)/(d*x+c))+ln(1-(b*x+a)/(d*x+c))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 74

Sympy [F(-2)]

Exception generated.

$$\int \left(-\frac{1}{(a+bx)(a-c+(b-d)x) \log\left(\frac{a+bx}{c+dx}\right)} + \frac{\log\left(1 - \frac{c+dx}{a+bx}\right)}{(a+bx)(c+dx) \log^2\left(\frac{a+bx}{c+dx}\right)} \right) dx$$

= Exception raised: TypeError

input `integrate(-1/(b*x+a)/(a-c+(b-d)*x)/ln((b*x+a)/(d*x+c))+ln(1-(d*x+c)/(b*x+a))/(b*x+a)/(d*x+c)/ln((b*x+a)/(d*x+c))**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/rubi_tests/3_Logarithms/174_3.6

Test file number 174

Integral number in file 75

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \log(c(d + ex)^n))^{7/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(a+b*ln(c*(e*x+d)**n))**(7/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 30

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(f + gx)^4} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*ln(c*(e*x+d)**n))/(g*x+f)**4,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 43

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{3/2}}{(f + gx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*ln(c*(e*x+d)**n))**(3/2)/(g*x+f)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 115

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n))^{5/2}}{f + gx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*ln(c*(e*x+d)**n))**(5/2)/(g*x+f),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 120

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(g*x+f)/(a+b*ln(c*(e*x+d)**n))**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 132

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(f + gx)(a + b \log(c(d + ex)^n))^{5/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(1/(g*x+f)/(a+b*ln(c*(e*x+d)**n))**(5/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 137

Sympy [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n)) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 162

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^m}{(a + b \log(c(d + ex)^n))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**m/(a+b*ln(c*(e*x+d)**n))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 164

Sympy [F(-2)]

Exception generated.

$$\int (f + gx)^m \sqrt{a + b \log(c(d + ex)^n)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n))**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 166

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^m}{(a + b \log(c(d + ex)^n))^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**m/(a+b*ln(c*(e*x+d)**n))**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 168

Sympy [F(-2)]

Exception generated.

$$\int (f + gx)^m (a + b \log(c(d + ex)^n))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*x+f)**m*(a+b*ln(c*(e*x+d)**n))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 169

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*(e*x+d)**n))/(e*x+d)/(g*x+f)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 202

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \log(c(d + ex)^n)}{(d + ex)(f + gx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*(e*x+d)**n))/(e*x+d)/(g*x+f)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 203

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(c\left(a - \frac{(d-acd)x^{-m}}{ce}\right)\right)}{x(d + ex^m)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(ln(c*(a-(-a*c*d+d)/c/e/(x**m)))/x/(d+e*x**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 335

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log\left(\frac{x^{-m}(-d+acd+acex^m)}{e}\right)}{x(d+ex^m)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(ln((-d+a*c*d+a*c*e*x**m)/e/(x**m))/x/(d+e*x**m),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 336

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \log(c(d + ex)^n)) \log\left(\frac{e(f+gx)}{ef-dg}\right)}{d + ex} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*ln(c*(e*x+d)**n))*ln(e*(g*x+f)/(-d*g+e*f))/(e*x+d),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 401

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q)) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 525

Sympy [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^m}{(a + b \log(c(d(e + fx)^p)^q))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**m/(a+b*ln(c*(d*(f*x+e)**p)**q))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 527

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^m \sqrt{a + b \log(c(d(e + fx)^p)^q)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q))**(1/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 529

Sympy [F(-2)]

Exception generated.

$$\int \frac{(g + hx)^m}{(a + b \log(c(d(e + fx)^p)^q))^{3/2}} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**m/(a+b*ln(c*(d*(f*x+e)**p)**q))**(3/2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 531

Sympy [F(-2)]

Exception generated.

$$\int (g + hx)^m (a + b \log(c(d(e + fx)^p)^q))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((h*x+g)**m*(a+b*ln(c*(d*(f*x+e)**p)**q))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/175_3.7

Test file number 175

Integral number in file 532

Sympy [F(-2)]

Exception generated.

$$\int (fx)^{-1-n} \log(c(d + ex^n)^p) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)**(-1-n)*ln(c*(d+e*x**n)**p),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 68

Sympy [F(-2)]

Exception generated.

$$\int (fx)^{-1-2n} \log(c(d+ex^n)^p) dx = \text{Exception raised: TypeError}$$

input `integrate((f*x)**(-1-2*n)*ln(c*(d+e*x**n)**p),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 69

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(c(a+bx^2)^p)}{(d+ex)^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(ln(c*(b*x**2+a)**p)/(e*x+d)**2,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 189

Sympy [F(-2)]

Exception generated.

$$\int (d + ex)^m \log(c(a + bx)^p) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((e*x+d)**m*ln(c*(b*x+a)**p),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 208

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^n)^p)}{x(f + gx^{-n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(ln(c*(d+e*x**n)**p)/x/(f+g/(x**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 372

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(c(d + ex^n))}{x(ce - (1 - cd)x^{-n})} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(c*(d+e*x**n))/x/(c*e-(-c*d+1)/(x**n)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 378

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^{-1+n} \log(c(d + ex^n))}{-1 + cd + cex^n} dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+n)*ln(c*(d+e*x**n))/(-1+c*d+c*e*x**n),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 379

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx^n)^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f+g*x**n)**2*ln(c*(d+e*x**n)**p)**q/x,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 382

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx^{-n})^2 \log^q(c(d + ex^n)^p)}{x} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f+g/(x**n))**2*ln(c*(d+e*x**n)**p)**q/x,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 383

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log^q(c(d+ex^n)^p)}{x(f+gx^{-n})} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(ln(c*(d+e*x**n)**p)**q/x/(f+g/(x**n)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 387

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log(d+ex^m)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(x)*ln(d+e*x**m)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 389

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{\sqrt{hx}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 606

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{(hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 607

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx) (a + b \log(c(d + ex^2)^p))}{(hx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 608

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{\sqrt{hx}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 611

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{(hx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 612

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2 (a + b \log(c(d + ex^2)^p))}{(hx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*ln(c*(e*x**2+d)**p))/(h*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 613

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(fx^p) \log(1+ex^m)}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(f*x**p)*ln(1+e*x**m)/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 619

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(fx^p) (a + b \log(c(d + ex^m)^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(ln(f*x**p)*(a+b*ln(c*(d+e*x**m)**n))/x,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/3_Logarithms/176_3.8

Test file number 176

Integral number in file 623

Sympy [F(-2)]

Exception generated.

$$\int \sec^4(c + dx)(a + b \sin(c + dx))^m dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(d*x+c)**4*(a+b*sin(d*x+c))**m,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/180_4.1.1.2

Test file number 180

Integral number in file 634

Sympy [F(-2)]

Exception generated.

$$\int (a + b \sin(e + fx))^m (c + d \sin(e + fx))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*sin(f*x+e))**m*(c+d*sin(f*x+e))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/182_4.1.2.1

Test file number 182

Integral number in file 808

Sympy [F(-2)]

Exception generated.

$$\int \frac{(g \cos(e + fx))^{3/2} (a + a \sin(e + fx))^m}{(c - c \sin(e + fx))^3} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((g*cos(f*x+e))**(3/2)*(a+a*sin(f*x+e))**m/(c-c*sin(f*x+e))**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 158

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^4(e + fx)(c + d \sin(e + fx))^n}{(a + a \sin(e + fx))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(f*x+e)**4*(c+d*sin(f*x+e))**n/(a+a*sin(f*x+e))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 946

Sympy [F(-2)]

Exception generated.

$$\int \sec^4(e + fx)(a + a \sin(e + fx))^m (A + B \sin(e + fx)) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate(sec(f*x+e)**4*(a+a*sin(f*x+e))**m*(A+B*sin(f*x+e)),x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1027

Sympy [F(-2)]

Exception generated.

$$\int \cos^2(e + fx)(a + b \sin(e + fx))^m (c + d \sin(e + fx))^n dx$$

= Exception raised: HeuristicGCDFailed

input `integrate(cos(f*x+e)**2*(a+b*sin(f*x+e))**m*(c+d*sin(f*x+e))**n,x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1517

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^2(e + fx)(c + d \sin(e + fx))^n}{(a + b \sin(e + fx))^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(f*x+e)**2*(c+d*sin(f*x+e))**n/(a+b*sin(f*x+e))**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/183_4.1.2.2

Test file number 183

Integral number in file 1523

Sympy [F(-2)]

Exception generated.

$$\int (a + b \sin(e + fx))^m (A + B \sin(e + fx))(c + d \sin(e + fx))^n dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((a+b*sin(f*x+e))**m*(A+B*sin(f*x+e))*(c+d*sin(f*x+e))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/185_4.1.3.1

Test file number 185

Integral number in file 358

Sympy [F(-2)]

Exception generated.

$$\int (a + b \sin(e + fx))^m (c + d \sin(e + fx))^n (A + B \sin(e + fx) + C \sin^2(e + fx)) dx$$

= Exception raised: HeuristicGCDFailed

input

```
integrate((a+b*sin(f*x+e))**m*(c+d*sin(f*x+e))**n*(A+B*sin(f*x+e)+C*sin(f*x+e)**2),x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/187_4.1.4.2

Test file number 187

Integral number in file 32

Sympy [F(-2)]

Exception generated.

$$\int \cos^5(e + fx) (a + b \sin^n(e + fx))^p dx = \text{Exception raised: HeuristicGCDFailed}$$

input

```
integrate(cos(f*x+e)**5*(a+b*sin(f*x+e)**n)**p,x)
```

output

```
Exception raised: HeuristicGCDFailed >> no luck
```

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/189_4.1.7.2

Test file number 189

Integral number in file 362

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sin(d*x+c)**3/(f*x+e)/(a+a*sin(d*x+c)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 195

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(e + fx)(a + a \sin(c + dx))} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(d*x+c)**3/(f*x+e)/(a+a*sin(d*x+c)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 267

Sympy [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \cos^4(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f*x+e)**m*cos(d*x+c)**4/(a+a*sin(d*x+c)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 287

Sympy [F(-2)]

Exception generated.

$$\int \frac{(e + fx)^m \cos^3(c + dx)}{a + a \sin(c + dx)} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((f*x+e)**m*cos(d*x+c)**3/(a+a*sin(d*x+c)),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.1_Sine/192_4.1.10

Test file number 192

Integral number in file 288

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cos(d*x+c)**2/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 578

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cos(d*x+c)**4/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/215_4.3.1.2

Test file number 215

Integral number in file 579

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^6(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(d*x+c)**6/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 67

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(d*x+c)**4/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 68

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(d*x+c)**2/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 69

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^4(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(d*x+c)**4/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 73

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(d*x+c)**2/(a+b*tan(d*x+c))**4,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/216_4.3.1.3

Test file number 216

Integral number in file 74

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**6/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 477

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**5/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 478

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**4/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 479

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**3/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 480

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**2/(a+b*tan(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 481

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 482

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 483

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 484

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**2/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 485

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^6(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**6/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 486

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^5(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**5/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 487

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**4/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 488

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**3/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 489

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**2/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 490

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 491

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(1/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 492

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 493

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**2/(a+b*tan(d*x+c))**4,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 494

Sympy [F(-2)]

Exception generated.

$$\int \frac{c + d \tan(e + fx)}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((c+d*tan(f*x+e))/(a+b*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1196

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((c+d*tan(f*x+e))**2/(a+b*tan(f*x+e))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1202

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((c+d*tan(f*x+e))**3/(a+b*tan(f*x+e))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1208

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e)),x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1214

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e)),x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1215

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**2,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1220

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**2,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1221

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e))**2,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1222

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^4}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((a+b*tan(f*x+e))**4/(c+d*tan(f*x+e))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1223

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((a+b*tan(f*x+e))**3/(c+d*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1224

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1225

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(e + fx)}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((a+b*tan(f*x+e))/(c+d*tan(f*x+e))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1226

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))(c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**3,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1227

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

input `integrate(1/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**3,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1228

Sympy [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^m (c + d \tan(e + fx))^n dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((a+b*tan(f*x+e))**m*(c+d*tan(f*x+e))**n,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/217_4.3.2.1

Test file number 217

Integral number in file 1320

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 137

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c)),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 138

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c))**2,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 143

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c))**2,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 144

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\sqrt{\tan(c + dx)}(a + ia \tan(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(1/2)/(a+I*a*tan(d*x+c))**3,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 151

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{\tan^{\frac{3}{2}}(c + dx)(a + ia \tan(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate((A+B*tan(d*x+c))/tan(d*x+c)**(3/2)/(a+I*a*tan(d*x+c))**3,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real -I`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**4*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 282

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 283

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 284

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 285

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 286

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 287

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 288

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 289

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^4(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**4*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 290

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 291

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 292

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 293

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(c + dx)}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate((A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 294

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 295

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**2*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 296

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx)(A + B \tan(c + dx))}{(a + b \tan(c + dx))^4} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**3*(A+B*tan(d*x+c))/(a+b*tan(d*x+c))**4,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/218_4.3.3.1

Test file number 218

Integral number in file 297

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^3(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx$$

= Exception raised: AttributeError

input `integrate(tan(d*x+c)**3*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3, x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 38

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan^2(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx$$

= Exception raised: AttributeError

input `integrate(tan(d*x+c)**2*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3, x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 39

Sympy [F(-2)]

Exception generated.

$$\int \frac{\tan(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(tan(d*x+c)*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 40

Sympy [F(-2)]

Exception generated.

$$\int \frac{B \tan(c + dx) + C \tan^2(c + dx)}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 41

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 42

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^2(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**2*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 43

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^3(c + dx) (B \tan(c + dx) + C \tan^2(c + dx))}{(a + b \tan(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cot(d*x+c)**3*(B*tan(d*x+c)+C*tan(d*x+c)**2)/(a+b*tan(d*x+c))**3, x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 44

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx)) (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((c+d*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3, x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 56

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^2 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

input `integrate((c+d*tan(f*x+e))**2*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 63

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + d \tan(e + fx))^3 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(a + b \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

input `integrate((c+d*tan(f*x+e))**3*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 69

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e)),x)`

output Exception raised: NotImplementedError >> no valid subset found

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 75

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e)),x)`

output Exception raised: NotImplementedError >> no valid subset found

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 76

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**2,x)`

output Exception raised: NotImplementedError >> no valid subset found

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 81

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2(c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**2/(c+d*tan(f*x+e))**2,x)`

output Exception raised: NotImplementedError >> no valid subset found

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 82

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^3 (c + d \tan(e + fx))^2} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))**3/(c+d*tan(f*x+e))**2,x)`

output Exception raised: NotImplementedError >> no valid subset found

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 83

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^3 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

input `integrate((a+b*tan(f*x+e))**3*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 84

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^2 (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

input `integrate((a+b*tan(f*x+e))**2*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx)) (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^3} dx$$

= Exception raised: AttributeError

input `integrate((a+b*tan(f*x+e))*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(c + d \tan(e + fx))^3} dx = \text{Exception raised: AttributeError}$$

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**3,x)
```

output

```
Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))(c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

input

```
integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e))/(c+d*tan(f*x+e))**3,x)
```

output

```
Exception raised: NotImplementedError >> no valid subset found
```

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 88

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \tan(e + fx) + C \tan^2(e + fx)}{(a + b \tan(e + fx))^2 (c + d \tan(e + fx))^3} dx$$

= Exception raised: NotImplementedError

input `integrate((A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(a+b*tan(f*x+e)**2/(c+d*tan(f*x+e))**3,x)`

output `Exception raised: NotImplementedError >> no valid subset found`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 89

Sympy [F(-2)]

Exception generated.

$$\int (a + b \tan(e + fx))^m (c + d \tan(e + fx))^n (A + B \tan(e + fx) + C \tan^2(e + fx)) dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((a+b*tan(f*x+e))**m*(c+d*tan(f*x+e))**n*(A+B*tan(f*x+e)+C*tan(f*x+e)**2),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 164

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \tan(e + fx))^m (A + B \tan(e + fx) + C \tan^2(e + fx))}{(c + d \tan(e + fx))^2} dx$$

= Exception raised: HeuristicGCDFailed

input `integrate((a+b*tan(f*x+e))**m*(A+B*tan(f*x+e)+C*tan(f*x+e)**2)/(c+d*tan(f*x+e))**2,x)`

output Exception raised: HeuristicGCDFailed >> no luck

input file name test_cases/rubi_tests/4_Trig_functions/4.3_Tangent/219_4.3.4.2

Test file number 219

Integral number in file 170

Sympy [F(-2)]

Exception generated.

$$\int \frac{A + B \cot(c + dx)}{(a + b \cot(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate((A+B*cot(d*x+c))/(a+b*cot(d*x+c))**3,x)`

output Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'

input file name test_cases/rubi_tests/4_Trig_functions/4.4_Cotangent/227_4.4.2.1

Test file number 227

Integral number in file 94

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \tan(d + ex)}{(b^2 + 2ab \tan(d + ex) + a^2 \tan^2(d + ex))^2} dx = \text{Exception raised: AttributeError}$$

input `integrate((a+b*tan(e*x+d))/(b**2+2*a*b*tan(e*x+d)+a**2*tan(e*x+d)**2)**2,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/254_4.0

Test file number 254

Integral number in file 456

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^2(x)}{(a \cos(x) + b \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(x)**2/(a*cos(x)+b*sin(x))**2,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 16

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sin^3(x)}{(a \cos(x) + b \sin(x))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(sin(x)**3/(a*cos(x)+b*sin(x))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 22

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos^3(c + dx)}{(a \cos(c + dx) + b \sin(c + dx))^3} dx = \text{Exception raised: AttributeError}$$

input `integrate(cos(d*x+c)**3/(a*cos(d*x+c)+b*sin(d*x+c))**3,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 132

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cos(x) \sin(x)}{(a \cos(x) + b \sin(x))^2} dx = \text{Exception raised: AttributeError}$$

input `integrate(cos(x)*sin(x)/(a*cos(x)+b*sin(x))**2,x)`

output `Exception raised: AttributeError >> 'NoneType' object has no attribute 'primitive'`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/255_4.1

Test file number 255

Integral number in file 284

Sympy [F(-2)]

Exception generated.

$$\int \sec^3(c + bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+c)**3*sin(b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 151

Sympy [F(-2)]

Exception generated.

$$\int \sec^2(c + bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+c)**2*sin(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 159

Sympy [F(-2)]

Exception generated.

$$\int \sec^2(c + bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+c)**2*sin(b*x+a)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 165

Sympy [F(-2)]

Exception generated.

$$\int \sec^3(c + bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+c)**3*sin(b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 263

Sympy [F(-2)]

Exception generated.

$$\int \sec^3(c - bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x-c)**3*sin(b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 267

Sympy [F(-2)]

Exception generated.

$$\int \sec^2(c + bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+c)**2*sin(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 270

Sympy [F(-2)]

Exception generated.

$$\int \sec^2(c - bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x-c)**2*sin(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 274

Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sec^3(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)*sec(b*x+c)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 300

Sympy [F(-2)]

Exception generated.

$$\int \cos^2(a + bx) \sec^2(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**2*sec(b*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 308

Sympy [F(-2)]

Exception generated.

$$\int \cos^3(a + bx) \sec^2(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**3*sec(b*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 315

Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sec^3(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)*sec(b*x+c)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 373

Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \sec^3(c - bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)*sec(b*x-c)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 377

Sympy [F(-2)]

Exception generated.

$$\int \cos^2(a + bx) \sec^2(c + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**2*sec(b*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 380

Sympy [F(-2)]

Exception generated.

$$\int \cos^2(a + bx) \sec^2(c - bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**2*sec(b*x-c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 384

Sympy [F(-2)]

Exception generated.

$$\int \csc(2a + 2bx) \sin(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(csc(2*b*x+2*a)*sin(b*x+a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 418

Sympy [F(-2)]

Exception generated.

$$\int \csc(2a + 2bx) \sin^2(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(csc(2*b*x+2*a)*sin(b*x+a)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 428

Sympy [F(-2)]

Exception generated.

$$\int \csc(2a + 2bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(csc(2*b*x+2*a)*sin(b*x+a)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 438

Sympy [F(-2)]

Exception generated.

$$\int \cos(a + bx) \csc(2a + 2bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)*csc(2*b*x+2*a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 545

Sympy [F(-2)]

Exception generated.

$$\int \cos^2(a + bx) \csc(2a + 2bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**2*csc(2*b*x+2*a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 555

Sympy [F(-2)]

Exception generated.

$$\int \cos^3(a + bx) \csc(2a + 2bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(cos(b*x+a)**3*csc(2*b*x+2*a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/256_4.2

Test file number 256

Integral number in file 565

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cos(a + bx) \sin^3(a + bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)**m*cos(b*x+a)*sin(b*x+a)**3,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 22

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sec(a + bx) \sin(3a + 3bx)}{c + dx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+a)*sin(3*b*x+3*a)/(d*x+c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 386

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sec(a + bx) \sin(3a + 3bx)}{(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+a)*sin(3*b*x+3*a)/(d*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 387

Sympy [F(-2)]

Exception generated.

$$\int (c + dx) \sec^2(a + bx) \sin(3a + 3bx) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate((d*x+c)*sec(b*x+a)**2*sin(3*b*x+3*a),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 391

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sec^2(a + bx) \sin(3a + 3bx)}{c + dx} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+a)**2*sin(3*b*x+3*a)/(d*x+c),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 392

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sec^2(a + bx) \sin(3a + 3bx)}{(c + dx)^2} dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(sec(b*x+a)**2*sin(3*b*x+3*a)/(d*x+c)**2,x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/4_Trig_functions/4_Miscellaneous/257_4.3

Test file number 257

Integral number in file 393

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(c + dx)}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(d*x+c))/(d*e*x+c*e)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 167

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^2}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(d*x+c))**2/(d*e*x+c*e)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 174

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(c + dx))^3}{\sqrt{ce + dex}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(d*x+c))**3/(d*e*x+c*e)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/262_5.1

Test file number 262

Integral number in file 180

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 70

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 71

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arcsin(cx)}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))/(d*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 72

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))**2/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 75

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))**2/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 76

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^2}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))**2/(d*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 77

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))**3/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 80

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arcsin(cx))^3}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*asin(c*x))**3/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2

Test file number 264

Integral number in file 81

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 111

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arcsin(cx))^2}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4

Test file number 266

Integral number in file 235

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**3*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 117

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 118

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*asin(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 119

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arcsin(cx))^2}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**3*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 143

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arcsin(cx))^2}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 144

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arcsin(cx))^2}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*asin(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.1_Inverse_sine/267_5.1.5

Test file number 267

Integral number in file 145

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 206

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 207

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arccos(cx)}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))/(d*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 208

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**2/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 212

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**2/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 213

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^2}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**2/(d*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 214

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{\sqrt{dx}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**3/(d*x)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 217

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{(dx)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**3/(d*x)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 218

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arccos(cx))^3}{(dx)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*acos(c*x))**3/(d*x)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/271_5.2.2

Test file number 271

Integral number in file 219

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))}{\sqrt{d - c^2 dx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 115

Sympy [F(-2)]

Exception generated.

$$\int \frac{x(a + b \arccos(cx))^2}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*(a+b*acos(c*x))**2/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/273_5.2.4_arc-sin

Test file number 273

Integral number in file 240

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^3(a + b \arccos(cx))}{\sqrt{d - c^2 x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**3*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 14

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)^2(a + b \arccos(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)**2*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 15

Sympy [F(-2)]

Exception generated.

$$\int \frac{(f + gx)(a + b \arccos(cx))}{\sqrt{d - c^2x^2}} dx = \text{Exception raised: TypeError}$$

input `integrate((g*x+f)*(a+b*acos(c*x))/(-c**2*d*x**2+d)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.2_Inverse_cosine/275_5.2.5

Test file number 275

Integral number in file 16

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \arctan(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+n)*atan(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 2

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) + 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 52

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) + 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 53

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) + 1 of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 54

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c+(-1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) + 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 56

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c+(-1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) + 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 57

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (-1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c+(-1+I*c)*tan(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2*exp(2*I*a) + 1` of type `<class 'sympy.core.add.Add'>` to `QQ_I[b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 58

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-x**2*atan(-c-(1-I*c)*cot(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2*exp(2*I*a) - 1` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 65

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-x*atan(-c-(1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) - 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 66

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-atan(-c-(1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) - 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 67

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-x**2*atan(-c-(-1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) - 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 69

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-x*atan(-c-(-1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) - 1 o
f type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 70

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (-1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(-atan(-c-(-1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 71

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c-(I-c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 89

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c-(I-c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 + exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 90

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c-(I-c)*tanh(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 + exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 91

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c+(I+c)*coth(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 - exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 102

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c+(I+c)*coth(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 - exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 103

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c+(I+c)*coth(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 - exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 104

Sympy [F(-2)]

Exception generated.

$$\int x^2 \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*atan(c-(I-c)*coth(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 - exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 106

Sympy [F(-2)]

Exception generated.

$$\int x \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*atan(c-(I-c)*coth(b*x+a)),x)`

output Exception raised: CoercionFailed >> Cannot convert `_t0**2 - exp(2*a)` of type `<class 'sympy.core.add.Add'>` to `QQ_I[x,b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 107

Sympy [F(-2)]

Exception generated.

$$\int \arctan(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(atan(c-(I-c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2 - exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/276_5.3

Test file number 276

Integral number in file 108

Sympy [F(-2)]

Exception generated.

$$\int \frac{a + b \arctan(cx)}{x(d + icdx)^3} dx = \text{Exception raised: RecursionError}$$

input `integrate((a+b*atan(c*x))/x/(d+I*c*d*x)**3,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 63

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))^2}{x(d + icdx)^3} dx = \text{Exception raised: RecursionError}$$

input `integrate((a+b*atan(c*x))**2/x/(d+I*c*d*x)**3,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 116

Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{(c + a^2cx^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(atan(a*x)/(a**2*c*x**2+c)**2,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded while calling a Python object`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 187

Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(atan(a*x)/x/(a**2*c*x**2+c)**2,x)`output `Exception raised: RecursionError >> maximum recursion depth exceeded`input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4Test file number 279Integral number in file 188**Sympy [F(-2)]**

Exception generated.

$$\int \frac{\arctan(ax)}{(c+a^2cx^2)^3} dx = \text{Exception raised: RecursionError}$$

input `integrate(atan(a*x)/(a**2*c*x**2+c)**3,x)`output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4Test file number 279Integral number in file 195

Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x(c+a^2cx^2)^3} dx = \text{Exception raised: RecursionError}$$

input `integrate(atan(a*x)/x/(a**2*c*x**2+c)**3,x)`

output `Exception raised: RecursionError >> maximum recursion depth exceeded`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 196

Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{\sqrt{c+a^2cx^2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*atan(a*x)/(a**2*c*x**2+c)**(1/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 226

Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{(c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*atan(a*x)/(a**2*c*x**2+c)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 234

Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x (c + a^2 cx^2)^{3/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(atan(a*x)/x/(a**2*c*x**2+c)**(3/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 236

Sympy [F(-2)]

Exception generated.

$$\int \frac{x \arctan(ax)}{(c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(x*atan(a*x)/(a**2*c*x**2+c)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 244

Sympy [F(-2)]

Exception generated.

$$\int \frac{\arctan(ax)}{x (c + a^2 cx^2)^{5/2}} dx = \text{Exception raised: TypeError}$$

input `integrate(atan(a*x)/x/(a**2*c*x**2+c)**(5/2),x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 246

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2 x^2))}{x^2} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**2,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1290

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2 x^2))}{x^4} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**4,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1292

Sympy [F(-2)]

Exception generated.

$$\int \frac{(a + b \arctan(cx))(d + e \log(1 + c^2 x^2))}{x^6} dx = \text{Exception raised: TypeError}$$

input `integrate((a+b*atan(c*x))*(d+e*ln(c**2*x**2+1))/x**6,x)`

output `Exception raised: TypeError >> Invalid comparison of non-real zoo`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.3_Inverse_tangent/279_5.3.4

Test file number 279

Integral number in file 1294

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \cot^{-1}(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+n)*acot(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 2

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[x,b, c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 14

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[x,b, c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 15

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 + ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c+(1+I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) + I of type <class 'sympy.core.add.Add'> to QQ_I[b,c, _t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 16

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 - ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c-(1-I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 18

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 - ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c-(1-I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 19

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 - ic) \tan(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c-(1-I*c)*tan(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) - 3*_t0**2*I*c*exp(2*I*a) + _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 20

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*(pi-acot(-c-(1-I*c)*cot(b*x+a))),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 27

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*(pi-acot(-c-(1-I*c)*cot(b*x+a))),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 28

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (1 - ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(pi-acot(-c-(1-I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**4*c**2*exp(4*I*a) + _t0**4*I*c*exp(4*I*a) + 3*_t0**2*I*c*exp(2*I*a) - _t0**2*exp(2*I*a) - 1 of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 29

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*(pi-acot(-c+(1+I*c)*cot(b*x+a))),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 31

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*(pi-acot(-c+(1+I*c)*cot(b*x+a))),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[x,b, c,_t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 32

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (1 + ic) \cot(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(pi-acot(-c+(1+I*c)*cot(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert 2*_t0**2*c*exp(2*I*a) - _t0**2*I*exp(2*I*a) - I of type <class 'sympy.core.add.Add'> to QQ_I[b,c, _t0,exp(I*a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 33

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*a) + _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 44

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*a) + _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 45

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (i + c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c+(I+c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 - 3*_t0**2*I*c*exp(2*a) + _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 46

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c-(I-c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 48

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c-(I-c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 49

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (i - c) \tanh(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c-(I-c)*tanh(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert _t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 50

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c+(I+c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 61

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c+(I+c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 62

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c + (i + c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c+(I+c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**4 + 3*_t0**2*I*c*exp(2*a) - _t0**2*exp(2*a) + 2*c**2*exp(4*a) + I*c*exp(4*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 63

Sympy [F(-2)]

Exception generated.

$$\int x^2 \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x**2*acot(c-(I-c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 65

Sympy [F(-2)]

Exception generated.

$$\int x \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(x*acot(c-(I-c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[x,b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 66

Sympy [F(-2)]

Exception generated.

$$\int \cot^{-1}(c - (i - c) \coth(a + bx)) dx = \text{Exception raised: CoercionFailed}$$

input `integrate(acot(c-(I-c)*coth(b*x+a)),x)`

output `Exception raised: CoercionFailed >> Cannot convert -_t0**2*I + 2*c*exp(2*a) - I*exp(2*a) of type <class 'sympy.core.add.Add'> to QQ_I[b,c,_t0,exp(a)]`

input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4

Test file number 281

Integral number in file 67

Sympy [F(-2)]

Exception generated.

$$\int \frac{\cot^{-1}(x)}{(1+x^2)^2} dx = \text{Exception raised: RecursionError}$$

input `integrate(acot(x)/(x**2+1)**2,x)`output `Exception raised: RecursionError >> maximum recursion depth exceeded in comparison`input file name test_cases/rubi_tests/5_Inverse_trig_functions/5.4_Inverse_cotangent/284_5.4.4Test file number 284Integral number in file 7**Sympy [F(-2)]**

Exception generated.

$$\int x^m \cosh(a+bx) \sinh(a+bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**m*cosh(b*x+a)*sinh(b*x+a),x)`output `Exception raised: TypeError >> cannot determine truth value of Relational`input file name test_cases/rubi_tests/6_Hyperbolic_functions/6_Miscellaneous/290_6Test file number 290Integral number in file 252

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 75

Sympy [F(-2)]

Exception generated.

$$\int x^{3+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(3+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 78

Sympy [F(-2)]

Exception generated.

$$\int x^{2+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(2+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 79

Sympy [F(-2)]

Exception generated.

$$\int x^{1+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(1+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 80

Sympy [F(-2)]

Exception generated.

$$\int x^m \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**m*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 81

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 82

Sympy [F(-2)]

Exception generated.

$$\int x^{-2+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-2+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 83

Sympy [F(-2)]

Exception generated.

$$\int x^{-3+m} \sinh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-3+m)*sinh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 84

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+I*a*sinh(f*x+e))**3,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+I*a*sinh(f*x+e))**2,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 153

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + ia \sinh(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+I*a*sinh(f*x+e)),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 154

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*sinh(f*x+e))**3,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 182

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*sinh(f*x+e))**2,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 183

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \sinh(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*sinh(f*x+e)),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1

Test file number 293

Integral number in file 184

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 78

Sympy [F(-2)]

Exception generated.

$$\int x^{3+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(3+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 81

Sympy [F(-2)]

Exception generated.

$$\int x^{2+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(2+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 82

Sympy [F(-2)]

Exception generated.

$$\int x^{1+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(1+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 83

Sympy [F(-2)]

Exception generated.

$$\int x^m \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**m*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 84

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-1+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 85

Sympy [F(-2)]

Exception generated.

$$\int x^{-2+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-2+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int x^{-3+m} \cosh(a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate(x**(-3+m)*cosh(b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+a*cosh(f*x+e))**3,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 151

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+a*cosh(f*x+e))**2,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + a \cosh(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+a*cosh(f*x+e)),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 153

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx))^3 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*cosh(f*x+e))**3,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 179

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx))^2 dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*cosh(f*x+e))**2,x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 180

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m (a + b \cosh(e + fx)) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*(a+b*cosh(f*x+e)),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.2_Hyperbolic_cosine/299_6.2.1

Test file number 299

Integral number in file 181

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^3}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**3/(a+b*coth(f*x+e))**2,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/309_6.4.1

Test file number 309

Integral number in file 57

Sympy [F(-2)]

Exception generated.

$$\int \frac{(c + dx)^2}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**2/(a+b*coth(f*x+e))**2,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/309_6.4.1

Test file number 309

Integral number in file 58

Sympy [F(-2)]

Exception generated.

$$\int \frac{c + dx}{(a + b \coth(e + fx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)/(a+b*coth(f*x+e))**2,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/309_6.4.1

Test file number 309

Integral number in file 59

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^2} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*coth(d*x+c))**2,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 82

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^3} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*coth(d*x+c))**3,x)`output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 83

Sympy [F(-2)]

Exception generated.

$$\int \frac{1}{(a + b \coth(c + dx))^4} dx = \text{Exception raised: TypeError}$$

input `integrate(1/(a+b*coth(d*x+c))**4,x)`output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 84

Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^3(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(a+b*ln(c*x**n))**3/x,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 196

Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^4(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(a+b*ln(c*x**n))**4/x,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 197

Sympy [F(-2)]

Exception generated.

$$\int \frac{\coth^5(a + b \log(cx^n))}{x} dx = \text{Exception raised: TypeError}$$

input `integrate(coth(a+b*ln(c*x**n))**5/x,x)`

output `Exception raised: TypeError >> Invalid NaN comparison`

input file name test_cases/rubi_tests/6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/310_6.4.2

Test file number 310

Integral number in file 198

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \operatorname{arctanh}(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+n)*atanh(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.3_Inverse_hyperbolic_tangent/336_7.3

Test file number 336

Integral number in file 29

Sympy [F(-2)]

Exception generated.

$$\int x^{-1+n} \coth^{-1}(a + bx^n) dx = \text{Exception raised: HeuristicGCDFailed}$$

input `integrate(x**(-1+n)*acoth(a+b*x**n),x)`

output `Exception raised: HeuristicGCDFailed >> no luck`

input file name test_cases/rubi_tests/7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/341_7.4

Test file number 341

Integral number in file 173

Sympy [F(-2)]

Exception generated.

$$\int (c + dx)^m \Gamma(2, a + bx) dx = \text{Exception raised: TypeError}$$

input `integrate((d*x+c)**m*uppergamma(2,b*x+a),x)`

output `Exception raised: TypeError >> cannot determine truth value of Relational`

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 180

Sympy [F(-2)]

Exception generated.

$$\int e^{-a-bx}(c+dx)^m dx = \text{Exception raised: TypeError}$$

input `integrate(exp(-b*x-a)*(d*x+c)**m,x)`

output Exception raised: TypeError >> cannot determine truth value of Relational

input file name test_cases/rubi_tests/8_Special_functions/355_8.6

Test file number 355

Integral number in file 181

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8-3x)\log^2(x) + (-4-x)\log^2(x)\log(4x^2+x^3) + (-8-2x + (-8-2x)\log(x) + (20x^2+5x^3)\log(x))}{(4x+x^2)\log^2(x)\log(4x^2+x^3) + ((8x+2x^2)\log(x) + (8x^2+22x^3+5x^4)\log^2(x))\log^2(4x+x^2)} dx = \text{Exception raised: PolynomialError}$$

input `integrate((((5*x**3+20*x**2)*ln(x)**2+(-2*x-8)*ln(x)-2*x-8)*ln(x**3+4*x**2)**2+(-4-x)*ln(x)**2*ln(x**3+4*x**2)+(-3*x-8)*ln(x)**2)/((5*x**4+22*x**3+8*x**2)*ln(x)**2+(2*x**2+8*x)*ln(x))*ln(x**3+4*x**2)**2+(x**2+4*x)*ln(x)**2*ln(x**3+4*x**2)),x)`

output Exception raised: PolynomialError >> 1/(25*_t0**2*x**6 + 120*_t0**2*x**5 + 84*_t0**2*x**4 + 16*_t0**2*x**3 + 20*_t0*x**4 + 88*_t0*x**3 + 32*_t0*x**2 + 4*x**2 + 16*x) contains an element of the set of generators.

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 8

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^2(100 + 40x + 4x^2) + e^2(100 + 40x + 4x^2) \log(x) + (20x^3 - 4e^5x^3) \log^3(x)}{e^2(-25x - 10x^2 - x^3) \log(x) + (10x^4 + 2x^5 + e^5(10x^3 + 2x^4)) \log^3(x)} dx$$

= Exception raised: PolynomialError

input `integrate(((−4*x**3*exp(5)+20*x**3)*ln(x)**3+(4*x**2+40*x+100)*exp(2)*ln(x)
)+(4*x**2+40*x+100)*exp(2))/(((2*x**4+10*x**3)*exp(5)+2*x**5+10*x**4)*ln(x)
)**3+(−x**3−10*x**2−25*x)*exp(2)*ln(x)),x)`

output Exception raised: PolynomialError >> 1/(4*x**10 + 16*x**9*exp(5) + 24*x**8
*exp(10) + 16*x**7*exp(15) + 4*x**6*exp(20)) contains an element of the se
t of generators.

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 21

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{18}{2x^2+x^2 \log(x)}} (-90 + 4x^2 + (-36 + 4x^2) \log(x) + x^2 \log^2(x))}{4x^2 + 4x^2 \log(x) + x^2 \log^2(x)} dx$$

= Exception raised: TypeError

input `integrate((x**2*ln(x)**2+(4*x**2-36)*ln(x)+4*x**2-90)*exp(18/(x**2*ln(x)+2
*x**2))/(x**2*ln(x)**2+4*x**2*ln(x)+4*x**2),x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 86

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{14x/5}(-360 - 165x - 15x^2) + (45x + 15x^2 + e^{14x/5}(888x + 447x^2 + 42x^3)) \log(x) + (-360 - 165x - 360) \exp(2/5x) \exp(x)^2}{(360x + 285x^2 + 70x^3 + 5x^4) \log^2(x)}$$

input

```
integrate(((((-15*x**2-120*x)*ln(x)-15*x**2-165*x-360)*ln(x+8)+((42*x**3+44
7*x**2+888*x)*exp(2/5*x)**2*exp(x)**2+15*x**2+45*x)*ln(x)+(-15*x**2-165*x-
360)*exp(2/5*x)**2*exp(x)**2)/(5*x**4+70*x**3+285*x**2+360*x)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 89

Sympy [F(-2)]

Exception generated.

$$\int \frac{100 - 105x + 31x^2 + 3e^{2x}x^2 + e^x(-30x + 24x^2 - x^3) + (30x - 19x^2 - 6e^xx^2) \log(x)}{75 + 10x - 83x^2 + 30x^3 + e^{2x}(3x^2 + 3x^3) + e^x(-30x - 17x^2 + 19x^3) + (30x + 17x^2 - 19x^3 + e^x(-6x^2 + 3x^3)) \log(x)}$$

= Exception raised: PolynomialError

input

```
integrate(((3*x**2*ln(x)**2+(-6*exp(x)*x**2-19*x**2+30*x)*ln(x)+3*exp(x)**2
*x**2+(-x**3+24*x**2-30*x)*exp(x)+31*x**2-105*x+100)/((3*x**3+3*x**2)*ln(x)
)**2+((-6*x**3-6*x**2)*exp(x)-19*x**3+17*x**2+30*x)*ln(x)+(3*x**3+3*x**2)*
exp(x)**2+(19*x**3-17*x**2-30*x)*exp(x)+30*x**3-83*x**2+10*x+75),x)
```

output

```
Exception raised: PolynomialError >> 1/(3*x**4 + 6*x**3 + 3*x**2) contains
an element of the set of generators.
```


input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 99

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{4x^3}{11x-2e^2x-2x^2+2\log(x)}}(-8x^2+88x^3-16e^2x^3-8x^4+24x^2\log(x))}{121x^2+4e^4x^2-44x^3+4x^4+e^2(-44x^2+8x^3)+(44x-8e^2x-8x^2)\log(x)+4\log^2(x)} dx$$

= Exception raised: TypeError

input `integrate((24*x**2*ln(x)-16*x**3*exp(2)-8*x**4+88*x**3-8*x**2)*exp(2*x**3/(2*ln(x)-2*exp(2)*x-2*x**2+11*x))**2/(4*ln(x)**2+(-8*exp(2)*x-8*x**2+44*x)*ln(x)+4*x**2*exp(2)**2+(8*x**3-44*x**2)*exp(2)+4*x**4-44*x**3+121*x**2),x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 152

Sympy [F(-2)]

Exception generated.

$$\int \frac{3-3x+(-12+3x-3\log(x))\log(4-x+\log(x))+(64+e^2(32-8x)+e^4(4-x)-16x+(16+(-12x+3x^2-3x\log(x))\log(4-x+\log(x))+(64x-16x^2+e^2(32x-8x^2)+e^4(4x-x^2)+(16x+$$

= Exception raised: PolynomialError

input `integrate((((exp(2)**2+8*exp(2)+16)*ln(x)+(-x+4)*exp(2)**2+(-8*x+32)*exp(2)-16*x+64)*ln(ln(x)-x+4)**2+(-3*ln(x)+3*x-12)*ln(ln(x)-x+4)-3*x+3)/(((x*exp(2)**2+8*exp(2)*x+16*x)*ln(x)+(-x**2+4*x)*exp(2)**2+(-8*x**2+32*x)*exp(2)-16*x**2+64*x)*ln(ln(x)-x+4)**2+(-3*x*ln(x)+3*x**2-12*x)*ln(ln(x)-x+4)),x)`

output

```
Exception raised: PolynomialError >> 1/(-_t0*x + x**2 - 4*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 211

Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x + 2 \log(x) + (x - \log(x)) \log(2x^2) + (1 - x) \log(2x^2) \log\left(\frac{x}{\log(2x^2)}\right)}{(x^3 - 2x^2 \log(x) + x \log^2(x)) \log(2x^2)} dx$$

= Exception raised: TypeError

input

```
integrate(((1-x)*ln(2*x**2)*ln(x/ln(2*x**2))+(x-ln(x))*ln(2*x**2)+2*ln(x)-2*x)/(x*ln(x)**2-2*x**2*ln(x)+x**3)/ln(2*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 222

Sympy [F(-2)]

Exception generated.

$$\int \frac{3750x + 300x^2 + 6x^3 + (4000x^2 + 300x^3 + 6x^4) \log(x) + ((4000x^2 + 310x^3 + 6x^4) \log(x) + (3750x + 300x^2 + 6x^3) \log^2(x))}{(2000x + 155x^2 + 3x^3) \log(x) + (1500x^2 + 155x^3 + 3x^4) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((6*x**3+300*x**2+3750*x)*ln(x)*ln(ln(x))+(6*x**4+310*x**3+4000*x**2)*ln(x))*ln(((9*x**2+450*x+5625)*ln(ln(x))**2+(18*x**3+930*x**2+12000*x)*ln(ln(x))+9*x**4+480*x**3+6400*x**2)/(9*x**2+450*x+5625)))+(6*x**4+300*x**3+4000*x**2)*ln(x)+6*x**3+300*x**2+3750*x)/((3*x**2+150*x+1875)*ln(x)*ln(ln(x))+(3*x**3+155*x**2+2000*x)*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 255

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^3 \log(2) + (18x^2 - 3x^3) \log(2) \log(6 - x) + (12x - 2x^2 + (-12 + 2x) \log(2)) \log^2(6 - x)}{(6x^3 - x^4) \log(2) \log(6 - x) + (6x^2 - x^3 + (6 - 13x + 2x^2) \log(2)) \log^2(6 - x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((2*x-12)*ln(2)-2*x**2+12*x)*ln(6-x)**2+(-3*x**3+18*x**2)*ln(2)*ln(6-x)+x**3*ln(2))/(((2*x**2-13*x+6)*ln(2)-x**3+6*x**2)*ln(6-x)**2+(-x**4+6*x**3)*ln(2)*ln(6-x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**5 - 6*x**4 - 4*x**4*log(2) + 4*x**3*log(2)**2 + 26*x**3*log(2) - 28*x**2*log(2)**2 - 12*x**2*log(2) + 25*x*log(2)**2 - 6*log(2)**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 256

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x \left(e^{1+\frac{1}{4}(-2+x)}(36 - 27x + 3x^2) + e(144 - 144x + 16x^2) \right)}{192x^2 + 96e^{\frac{1}{4}(-2+x)}x^2 + 12e^{\frac{1}{2}(-2+x)}x^2} dx$$

= Exception raised: PolynomialError

input `integrate(((3*x**2-27*x+36)*exp(1)*exp(1/4*x-1/2)+(16*x**2-144*x+144)*exp(1))*exp(x)/(12*x**2*exp(1/4*x-1/2)**2+96*x**2*exp(1/4*x-1/2)+192*x**2),x)`

output `Exception raised: PolynomialError >> (3*_t0**5*x**2*exp(6) - 27*_t0**5*x*exp(6) + 36*_t0**5*exp(6) + 16*_t0**4*x**2*exp(13/2) - 144*_t0**4*x*exp(13/2) + 144*_t0**4*exp(13/2))/(12*_t0**2*x**2*exp(9/2) + 96*_t0*x**2*exp(5) + 192*x**2*exp(1`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 275

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x + (-4x + x^3) \log(x) + (-4x + 3x^2) \log(x) \log\left(\frac{\log(x)}{x}\right) + 3x \log(x) \log^2\left(\frac{\log(x)}{x}\right) + \log(x) \log^3\left(\frac{\log(x)}{x}\right)}{(-7x^3 + x^4) \log(x) + (-17x^2 + 3x^3) \log(x) \log\left(\frac{\log(x)}{x}\right) + (-15x + 3x^2) \log(x) \log^2\left(\frac{\log(x)}{x}\right) + (-5 + x) \log^3\left(\frac{\log(x)}{x}\right)} dx$$

= Exception raised: PolynomialError

input `integrate((ln(x)*ln(ln(x)/x)**3+3*x*ln(x)*ln(ln(x)/x)**2+(3*x**2-4*x)*ln(x)*ln(ln(x)/x)+(x**3-4*x)*ln(x)+4*x)/((-5+x)*ln(x)*ln(ln(x)/x)**3+(3*x**2-15*x)*ln(x)*ln(ln(x)/x)**2+(3*x**3-17*x**2)*ln(x)*ln(ln(x)/x)+(x**4-7*x**3)*ln(x)),x)`

output

```
Exception raised: PolynomialError >> 1/(_t0**2*x**4 - 20*_t0**2*x**3 + 150*_t0**2*x**2 - 500*_t0**2*x + 625*_t0**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 280

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{x}{4+2x+2\log(x^2)}} \frac{(-16 + 8x + 20x^2 + 6x^3 + (-16 + 17x + 11x^2) \log(x^2) + (-4 + 6x) \log^2(x^2))}{8x^3 - 8x^4 - 6x^5 + 4x^6 + 2x^7 + (8x^3 - 12x^4 + 4x^6) \log(x^2) + (2x^3 - 4x^4 + 2x^5) \log^2(x^2)} dx$$

= Exception raised: TypeError

input

```
integrate(((6*x-4)*ln(x**2)**2+(11*x**2+17*x-16)*ln(x**2)+6*x**3+20*x**2+8*x-16)*exp(x/(2*ln(x**2)+2*x+4))/((2*x**5-4*x**4+2*x**3)*ln(x**2)**2+(4*x**6-12*x**4+8*x**3)*ln(x**2)+2*x**7+4*x**6-6*x**5-8*x**4+8*x**3), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 284

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^3(-3 + 5x - x^2) + e^6(-12 + 20x - 4x^2) \log(x) + (e^6(-12x + 4x^2) + e^6(12 - 30x^2 - 10x^3 + (-30x + 10x^2) \log(3x - x^2) + \log(x) (e^3(240x^2 - 80x^3) + e^3(-240x + 80x^2) \log(3x -$$

= Exception raised: TypeError

input

```
integrate(((((-4*x+12)*exp(3)**2*ln(-x**2+3*x)+(4*x**2-12*x)*exp(3)**2)*ln(
ln(-x**2+3*x)-x)+(-4*x**2+20*x-12)*exp(3)**2*ln(x)+(-x**2+5*x-3)*exp(3))/
((160*x**2-480*x)*exp(3)**2*ln(-x**2+3*x)+(-160*x**3+480*x**2)*exp(3)**2)*
ln(x)**2+((80*x**2-240*x)*exp(3)*ln(-x**2+3*x)+(-80*x**3+240*x**2)*exp(3))
*x*ln(x)+(10*x**2-30*x)*ln(-x**2+3*x)-10*x**3+30*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 307

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-4x^2+x^2 \log(\log(x))} (-5 + 40 \log(x) - 10 \log(x) \log(\log(x)))}{16x^3 \log(x) - 8x^3 \log(x) \log(\log(x)) + x^3 \log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

input

```
integrate((-10*ln(x)*ln(ln(x))+40*ln(x)-5)*exp(5/(x**2*ln(ln(x))-4*x**2))/
(x**3*ln(x)*ln(ln(x))**2-8*x**3*ln(x)*ln(ln(x))+16*x**3*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 330

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^3 \log(x) \log^2(\log(x)) + e^{\frac{-8x - 5e^3 x + x^2 - 10 \log(\log(x))}{\log(\log(x))}} (8 + 5e^3 - x + (-8 - 5e^3 + 2x) \log(x) \log(\log(x))) + e^{-\log(x) \log(\log(x))}}{\log(x) \log(\log(x))} dx$$

= Exception raised: TypeError

input

```
integrate(((((-5*exp(3)+2*x-8)*ln(x)*ln(ln(x))+5*exp(3)+8-x)*exp(1/2*(-10*ln(ln(x))-5*x*exp(3)+x**2-8*x)/ln(ln(x))))**2+(4*x*ln(x)*ln(ln(x))**2+(-5*x**2*exp(3)+2*x**3-8*x**2)*ln(x)*ln(ln(x))+5*x**2*exp(3)-x**3+8*x**2)*exp(1/2*(-10*ln(ln(x))-5*x*exp(3)+x**2-8*x)/ln(ln(x)))+4*x**3*ln(x)*ln(ln(x))**2)/ln(x)/ln(ln(x))**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 473

Sympy [F(-2)]

Exception generated.

$$\int \frac{(12 + 6x) \log^2\left(\frac{x}{2+x}\right) + e^{\frac{5x}{\log\left(\frac{x}{2+x}\right)}} \left(-20 + (20 + 10x) \log\left(\frac{x}{2+x}\right)\right)}{(2+x) \log^2\left(\frac{x}{2+x}\right)} dx$$

= Exception raised: TypeError

input

```
integrate((((10*x+20)*ln(x/(2+x))-20)*exp(5*x/ln(x/(2+x)))+(6*x+12)*ln(x/(2+x))**2)/(2+x)/ln(x/(2+x))**2,x)
```

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 598

Sympy [F(-2)]

Exception generated.

$$\int \frac{1 - 11x + 4x^2 + (-8 - 8x) \log(2 + 2x) + (-20 - 20x) \log^2(2 + 2x)}{-15 - 4x + 9x^2 - 2x^3 + (-60 - 28x + 28x^2 - 4x^3) \log(2 + 2x) + (-60 - 40x + 20x^2) \log^2(2 + 2x)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((20*x-20)*ln(2+2*x)**2+(-8*x-8)*ln(2+2*x)+4*x**2-11*x+1)/((20*x**2-40*x-60)*ln(2+2*x)**2+(-4*x**3+28*x**2-28*x-60)*ln(2+2*x)-2*x**3+9*x**2-4*x-15),x)
```

output

Exception raised: PolynomialError >> 1/(5*x + 5) contains an element of the set of generators.

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 618

Sympy [F(-2)]

Exception generated.

$$\int \frac{(4 - 4x^2) \log(5) + (-1 + x^2) \log^2(5) \log(-1 + x) + ((-4 + 4x^2 + e^7(-4 - 4x + 8x^2)) \log(5) + e^7(-x - 1)) \log^2(5)}{(-16x^2 - 16x^3 + 16x^4 + 16x^5)}$$

= Exception raised: TypeError

input

```
integrate(((((-2*x**2+x+1)*ln(5)**2*ln(-1+x)+(-x**2-x)*ln(5)**2+(8*x**2-4*x-4)*ln(5))*ln(x)*ln(ln(x)/x)+((( -2*x**2+x+1)*exp(7)-x**2+1)*ln(5)**2*ln(-1+x)+(-x**2-x)*exp(7)*ln(5)**2+((8*x**2-4*x-4)*exp(7)+4*x**2-4)*ln(5))*ln(x)+(x**2-1)*ln(5)**2*ln(-1+x)+(-4*x**2+4)*ln(5))/((x**5+x**4-x**3-x**2)*ln(5)**2*ln(-1+x)**2+(-8*x**5-8*x**4+8*x**3+8*x**2)*ln(5)*ln(-1+x)+16*x**5+16*x**4-16*x**3-16*x**2)/ln(x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 675

Sympy [F(-2)]

Exception generated.

$$\int \frac{8 + (80 - 20x) \log\left(\frac{324}{16-8x+x^2}\right) + (-4 + 21x - 5x^2) \log^2\left(\frac{324}{16-8x+x^2}\right)}{(-80 + 20x) \log\left(\frac{324}{16-8x+x^2}\right) + (-20x + 5x^2) \log^2\left(\frac{324}{16-8x+x^2}\right)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((((-5*x**2+21*x-4)*ln(324/(x**2-8*x+16))**2+(-20*x+80)*ln(324/(x**2-8*x+16)))+8)/((5*x**2-20*x)*ln(324/(x**2-8*x+16))**2+(20*x-80)*ln(324/(x**2-8*x+16))))),x)
```

output

```
Exception raised: PolynomialError >> 1/(5*x**3 - 20*x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 694

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x^2 + 2x^3 - 2x^4) \log(5) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right) + (16 - 8x + 12x^2 + (-4x^2 + 2x^3 - 3x^4) \log(5)) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right)}{(-16x + 4x^2 - 4x^3 + (4x^3 - x^4 + x^5) \log(5)) \log\left(\frac{1}{4}(-4x + x^2 - x^3)\right)}$$

= Exception raised: TypeError

input

```
integrate(((2*x**4-2*x**3+8*x**2)*ln(5)*ln(-1/4*x**3+1/4*x**2-x)*ln(ln(-1/4*x**3+1/4*x**2-x))+((-3*x**4+2*x**3-4*x**2)*ln(5)+12*x**2-8*x+16)*ln(x**2*ln(5)-4)+(-2*x**4+2*x**3-8*x**2)*ln(5)*ln(-1/4*x**3+1/4*x**2-x))/((x**5-x**4+4*x**3)*ln(5)-4*x**3+4*x**2-16*x)/ln(-1/4*x**3+1/4*x**2-x)/ln(x**2*ln(5)-4)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 700

Sympy [F(-2)]

Exception generated.

$$\int \frac{3 + x^2 + e^4 x^2 + (2x + 2e^4 x) \log(3) + (1 + e^4) \log^2(3) + e^{2x} (x^4 + e^4 x^4) \log(3)}{-3x - x^2 + x^3 + e^4 x^3 + (-3 - 2x + 2x^2 + 2e^4 x^2) \log(3) + (-1 + x + e^4 x) \log^2(3) + e^x (3x^3 + (6x^2 + \dots))}$$

= Exception raised: PolynomialError

input

```
integrate(((x**4*exp(4)+x**4)*ln(3)**2*exp(x)**2+((-2*x**2*exp(4)-2*x**2)*ln(3)**2+(-2*x**3*exp(4)-2*x**3)*ln(3)+3*x**3+3*x**2)*exp(x)+(exp(4)+1)*ln(3)**2+(2*x*exp(4)+2*x)*ln(3)+x**2*exp(4)+x**2+3))/((x**5*exp(4)+x**5-x**4)*ln(3)**2-3*x**4*ln(3))*exp(x)**2+((-2*x**3*exp(4)-2*x**3+2*x**2)*ln(3)**2+(-2*x**4*exp(4)-2*x**4+2*x**3+6*x**2)*ln(3)+3*x**3)*exp(x)+(x*exp(4)+x-1)*ln(3)**2+(2*x**2*exp(4)+2*x**2-2*x-3)*ln(3)+x**3*exp(4)+x**3-x**2-3*x),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**5*log(3)**3 + 2*x**5*exp(4)*log(3)**3 + x**5*exp(8)*log(3)**3 - 6*x**4*exp(4)*log(3)**2 - 2*x**4*exp(4)*log(3)**3 - 6*x**4*log(3)**2 - 2*x**4*log(3)**3 + x**3*log(3)**3 + 6*x**3*log(3)**2 + 9*x*
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 702

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{x}{\log(2x)}} (e^{-4+x} x^2 - e^{-4+x} x^2 \log(2x) + e^{-4+x} (2x + x^2) \log^2(2x))}{\log^2(2x)} dx$$

= Exception raised: TypeError

input

```
integrate(((x**2+2*x)*exp(-4+x)*ln(2*x)**2-x**2*exp(-4+x)*ln(2*x)+x**2*exp(-4+x))/ln(2*x)**2/exp(x/ln(2*x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 743

Sympy [F(-2)]

Exception generated.

$$\int \frac{-10 + 4x + (-2 + 2x - x^2) \log(x) + (2 - x) \log\left(-\frac{x}{-2+x}\right)}{-2x + x^2 + (-4x + 2x^2) \log(x) + (-2x + x^2) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((x**2+2*x-2)*ln(x)+(2-x)*ln(-x/(-2+x))+4*x-10)/((x**2-2*x)*ln(x)**2+(2*x**2-4*x)*ln(x)+x**2-2*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 778

Sympy [F(-2)]

Exception generated.

$$\int 4^{\frac{-16-8x-x^2}{-2-2x+2\log(\log(x^2))}} \frac{((32 + 48x + 18x^2 + 2x^3) \log(4) + (2 + 8x + 10x^2 + 4x^3 + (-8x - 6x^2 + 3x^3 + x^4) \log(4)))}{(2 + 4x + 2x^2) \log(x^2) + (-4 - 4x^2) \log(x^2)}$$

= Exception raised: TypeError

input

```
integrate(((2+4*x)*ln(x**2)*ln(ln(x**2))**2+(2*(-2*x**3-10*x**2-8*x)*ln(2)-8*x**2-12*x-4)*ln(x**2)*ln(ln(x**2)))+(2*(x**4+3*x**3-6*x**2-8*x)*ln(2)+4*x**3+10*x**2+8*x+2)*ln(x**2)+2*(2*x**3+18*x**2+48*x+32)*ln(2))*exp(2*(-x**2-8*x-16)*ln(2)/(2*ln(ln(x**2))-2*x-2))/(2*ln(x**2)*ln(ln(x**2))**2+(-4-4*x)*ln(x**2)*ln(ln(x**2)))+(2*x**2+4*x+2)*ln(x**2)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 835

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{5/4}(-360 + 72x) \log^3(x) + e^{5/4}(-90 + 36x) \log^4(x) + (180 - 72x) \log^5(x)}{-e^{25/4} + 10e^5 \log(x) - 40e^{15/4} \log^2(x) + 80e^{5/2} \log^3(x) - 80e^{5/4} \log^4(x) + 32 \log^5(x)} dx = \text{Exception raised}$$

input

```
integrate((( -72*x+180)*ln(x)**5+(36*x-90)*exp(5/4)*ln(x)**4+(72*x-360)*exp(5/4)*ln(x)**3)/(32*ln(x)**5-80*exp(5/4)*ln(x)**4+80*exp(5/4)**2*ln(x)**3-40*exp(5/4)**3*ln(x)**2+10*exp(5/4)**4*ln(x)-exp(5/4)**5), x)
```

output

```
Exception raised: AttributeError >> 'NoneType' object has no attribute 'expr'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 852

Sympy [F(-2)]

Exception generated.

$$\int \frac{-8 - 2x + (7 + 9x - 15x^2 - 2x^3) \log(x) + (-x - 2x^2) \log^2(x) + (1 + 2x) \log(x) \log(\log(x))}{(64x + 32x^2 + 4x^3) \log(x) + (16x + 4x^2) \log^2(x) + x \log^3(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((1+2*x)*ln(x)*ln(ln(x))+(-2*x**2-x)*ln(x)**2+(-2*x**3-15*x**2+9*x+7)*ln(x)-2*x-8)/(x*ln(x)**3+(4*x**2+16*x)*ln(x)**2+(4*x**3+32*x**2+64*x)*ln(x)), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 917

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^4(-1 + 17x - 4x^2 - 12x^3 + 3x^4) + e^4(4x - 3x^3) \log(x) + (e^4(20 - 5x - 12x^2 + 3x^3) + e^4(5 - 3x^2) \log(x))}{4x - x^2 + x^3} dx$$

= Exception raised: TypeError

input

```
integrate(((((-exp(4)*ln(x)+(-4+x)*exp(4))*ln(-ln(x)+x-4)-x*exp(4)*ln(x)+(x**2-4*x)*exp(4))*ln(ln(-ln(x)+x-4)+x)+((-3*x**2+5)*exp(4)*ln(x)+(3*x**3-12*x**2-5*x+20)*exp(4))*ln(-ln(x)+x-4)+(-3*x**3+4*x)*exp(4)*ln(x)+(3*x**4-12*x**3-4*x**2+17*x-1)*exp(4))/((ln(x)-x+4)*ln(-ln(x)+x-4)+x*ln(x)-x**2+4*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1003

Sympy [F(-2)]

Exception generated.

$$\int \frac{\left(\frac{x+4 \log\left(\frac{-4+4x}{5x} \log(4)\right)}{\log\left(\frac{-4+4x}{5x} \log(4)\right)}\right)^{\frac{1}{\log(x^2)}} \left(-x \log(x^2) + (-x+x^2) \log(x^2) \log\left(\frac{-4+4x}{5x} \log(4)\right) + (2x-2x^2) \log\left(\frac{-4+4x}{5x} \log(4)\right)\right)}{(-x^2+x^3) \log^2(x^2) \log\left(\frac{-4+4x}{5x} \log(4)\right) + (-4x+4x^2) \log\left(\frac{-4+4x}{5x} \log(4)\right)}$$

= Exception raised: TypeError

input

```
integrate((((-8*x+8)*ln(2/5*(-4+4*x)*ln(2)/x)**2+(-2*x**2+2*x)*ln(2/5*(-4+4*x)*ln(2)/x))*ln((4*ln(2/5*(-4+4*x)*ln(2)/x)+x)/ln(2/5*(-4+4*x)*ln(2)/x))+((x**2-x)*ln(x**2)*ln(2/5*(-4+4*x)*ln(2)/x)-x*ln(x**2))*exp(ln((4*ln(2/5*(-4+4*x)*ln(2)/x)+x)/ln(2/5*(-4+4*x)*ln(2)/x))/ln(x**2))/((4*x**2-4*x)*ln(x**2)**2*ln(2/5*(-4+4*x)*ln(2)/x)**2+(x**3-x**2)*ln(x**2)**2*ln(2/5*(-4+4*x)*ln(2)/x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1049

Sympy [F(-2)]

Exception generated.

$$\int \frac{4 + 4 \log\left(\frac{5 \log(3)}{e^2 x}\right) + (-4 - 8x) \log^2\left(\frac{5 \log(3)}{e^2 x}\right) + \left(-2 - 2 \log\left(\frac{5 \log(3)}{e^2 x}\right) + (2 + 4x) \log^2\left(\frac{5 \log(3)}{e^2 x}\right)\right) \log\left(\frac{x}{e^2 x}\right)}{-x \log\left(\frac{5 \log(3)}{e^2 x}\right) + (x+x^2) \log^2\left(\frac{5 \log(3)}{e^2 x}\right)}$$

= Exception raised: PolynomialError

input

```
integrate((((2+4*x)*ln(5*ln(3)/exp(2)/x)**2-2*ln(5*ln(3)/exp(2)/x)-2)*ln((-x**2-x)*ln(5*ln(3)/exp(2)/x)+x)/ln(5*ln(3)/exp(2)/x))+((-8*x-4)*ln(5*ln(3)/exp(2)/x)**2+4*ln(5*ln(3)/exp(2)/x)+4)/((x**2+x)*ln(5*ln(3)/exp(2)/x)**2-x*ln(5*ln(3)/exp(2)/x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**3 + 2*x**2 + x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1116

Sympy [F(-2)]

Exception generated.

$$\int e^{-\frac{x}{\log\left(\frac{48x}{4+3x}\right)}} \frac{(1036 + (-1036 - 777x) \log\left(\frac{48x}{4+3x}\right))}{(4 + 3x) \log^2\left(\frac{48x}{4+3x}\right)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((( -777*x-1036)*ln(48*x/(4+3*x))+1036)/(4+3*x)/ln(48*x/(4+3*x))**2/exp(x/ln(48*x/(4+3*x))),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1259

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{3-x+3 \log\left(\frac{-20-5x-2x^2}{6x}\right)}{\log\left(\frac{-20-5x-2x^2}{6x}\right)}} \frac{\left(60 - 20x - 6x^2 + 2x^3 + (-20x - 5x^2 - 2x^3) \log\left(\frac{-20-5x-2x^2}{6x}\right)\right)}{(20x + 5x^2 + 2x^3) \log^2\left(\frac{-20-5x-2x^2}{6x}\right)} dx = \text{Exception raised: TypeError}$$

input

```
integrate((( -2*x**3-5*x**2-20*x)*ln(1/6*(-2*x**2-5*x-20)/x)+2*x**3-6*x**2-20*x+60)*exp((3*ln(1/6*(-2*x**2-5*x-20)/x)+3-x)/ln(1/6*(-2*x**2-5*x-20)/x))/(2*x**3+5*x**2+20*x)/ln(1/6*(-2*x**2-5*x-20)/x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1276

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2+2x}(36-9x)+4x-x^2+e^{1+x}(8x-6x^2+x^3)+(-8x+2x^2+e^{1+x}(-72+18x))\log(x)+(36-9x)}{e^{1+x}x^2+e^{2+2x}(48+9x)+}$$

= Exception raised: PolynomialError

input

```
integrate(((( -9*x-48)*ln(x)**2+((18*x+96)*exp(1+x)+x**2)*ln(x)+(-9*x-48)*exp(1+x)**2-x**2*exp(1+x))*ln((( -9*x-48)*ln(x)+(9*x+48)*exp(1+x)+x**2)/(12*ln(x)-12*exp(1+x)))+(-9*x+36)*ln(x)**2+((18*x-72)*exp(1+x)+2*x**2-8*x)*ln(x)+(-9*x+36)*exp(1+x)**2+(x**3-6*x**2+8*x)*exp(1+x)-x**2+4*x)/((9*x+48)*ln(x)**2+((-18*x-96)*exp(1+x)-x**2)*ln(x)+(9*x+48)*exp(1+x)**2+x**2*exp(1+x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(27*x**3 + 288*x**2 + 768*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1296

Sympy [F(-2)]

Exception generated.

$$\int \frac{100 + 40x + 4x^2 + (-50 - 40x - 6x^2) \log(x) + (10x + 2x^2) \log^2(x) - 4x \log^3(x) + (-4 + 2x) \log^4(x)}{(x \ln(x))^4 - 2x \ln(x)^3} dx$$

= Exception raised: TypeError

input

```
integrate(((((-50*ln(x)+100)*ln(ln(x)-2)**4+100*ln(x)*ln(ln(x)-2)**3+(-10*x*ln(x)**2+(40*x+100)*ln(x)-40*x-200)*ln(ln(x)-2)**2+(-20*ln(x)**3+(-20*x-100)*ln(x))*ln(ln(x)-2)+2*ln(x)**5+(2*x-4)*ln(x)**4-4*x*ln(x)**3+(2*x**2+10*x)*ln(x)**2+(-6*x**2-40*x-50)*ln(x)+4*x**2+40*x+100)/(x*ln(x)**4-2*x*ln(x)**3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1331

Sympy [F(-2)]

Exception generated.

$$\int \frac{(64 - 16x) \log(x) + (-64x + 16x^2) \log(x) \log(2x) + (64 - 16x + (64 - 48x) \log(x)) \log(2x) \log\left(\frac{e^x}{\log(2x)}\right)}{(-64x^2 + 48x^3 - 12x^4 + x^5) \log^2(x) \log(2x)} dx$$

= Exception raised: TypeError

input

```
integrate(((((-48*x+64)*ln(x)-16*x+64)*ln(2*x)*ln(exp(x)/ln(2*x)))+(16*x**2-64*x)*ln(x)*ln(2*x)+(-16*x+64)*ln(x))/(x**5-12*x**4+48*x**3-64*x**2)/ln(x)**2/ln(2*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1387

Sympy [F(-2)]

Exception generated.

$$\int \frac{-240x - 48x^2 + (240x + 48x^2) \log(x) + ((240x + 96x^2) \log(x) + (45 + 18x) \log^2(x)) \log\left(\frac{16x+3\log(x)}{\log(x)}\right)}{(16x \log(x) + 3 \log^2(x)) \log\left(\frac{16x+3\log(x)}{\log(x)}\right)} dx$$

= Exception raised: TypeError

input

```
integrate((((18*x+45)*ln(x)**2+(96*x**2+240*x)*ln(x))*ln((3*ln(x)+16*x)/ln(x))*ln(2*ln((3*ln(x)+16*x)/ln(x)))+(48*x**2+240*x)*ln(x)-48*x**2-240*x)/(3*ln(x)**2+16*x*ln(x))/ln((3*ln(x)+16*x)/ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1455

Sympy [F(-2)]

Exception generated.

$$\int \frac{-45 + 39x - 56x^2 + 40x^3 - 11x^4 + x^5 + (-45 + 30x - 170x^2 + 119x^3 - 58x^4 + 13x^5 - x^6) \log(x) + (45x - 39x^2 + 56x^3 - 40x^4 + 11x^5 - x^6) \log(x) + (9x^3 - 6x^4 + 19x^5 - 12x^6) \log^2(x)}{(45x - 39x^2 + 56x^3 - 40x^4 + 11x^5 - x^6) \log(x) + (9x^3 - 6x^4 + 19x^5 - 12x^6) \log^2(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((x**9-5*x**8-4*x**7-x**6-11*x**5+13*x**4-6*x**3+9*x**2)*ln(x)**2+(-x**6+13*x**5-58*x**4+119*x**3-170*x**2+30*x-45)*ln(x)+x**5-11*x**4+40*x**3-56*x**2+39*x-45)/((x**9-6*x**8+11*x**7-12*x**6+19*x**5-6*x**4+9*x**3)*ln(x)**2+(-x**6+11*x**5-40*x**4+56*x**3-39*x**2+45*x)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**7 + 2*x**5 + x**3) contains an
element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1506

Sympy [F(-2)]

Exception generated.

$$\int \frac{x - 21x^2 + 20x^3 + e^5(-20x + 20x^2) + x \log(4x) + (-2x + 2x^2 + e^5(-2 + 2x) + (-e^5 - x) \log(4x))}{20x^3 - 40x^4 + 20x^5 + e^5(20x^2 - 40x^3 + 20x^4) + (40x^3 - 40x^4 + e^5(40x^2 - 40x^3)) \log(4x) + (20e^5x^2 - 40e^5x^3 + 20e^5x^4)} dx$$

= Exception raised: TypeError

input

```
integrate((((-exp(5)-x)*ln(4*x)+(2*x-2)*exp(5)+2*x**2-2*x)*ln(exp(5)+x)+x*
ln(4*x)+(20*x**2-20*x)*exp(5)+20*x**3-21*x**2+x)/((20*x**2*exp(5)+20*x**3)
*ln(4*x)**2+((-40*x**3+40*x**2)*exp(5)-40*x**4+40*x**3)*ln(4*x)+(20*x**4-4
0*x**3+20*x**2)*exp(5)+20*x**5-40*x**4+20*x**3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1587

Sympy [F(-2)]

Exception generated.

$$\int \frac{(5x + 4e^3x) \log(x) + (-19 + e^3(8 - 4x) - 5x) \log\left(\frac{1}{5}(38 + 10x + e^3(-16 + 8x))\right)}{(19x + 5x^2 + e^3(-8x + 4x^2)) \log^2(x)} dx$$

= Exception raised: TypeError

input `integrate(((((-4*x+8)*exp(3)-5*x-19)*ln(1/5*(8*x-16)*exp(3)+2*x+38/5)+(4*x*exp(3)+5*x)*ln(x)))/((4*x**2-8*x)*exp(3)+5*x**2+19*x)/ln(x)**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1657

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 4x^2) \log(-2 + x) \log\left(\frac{1}{2}(1 + 2x)\right) + (-2x - 4x^2 + (2 + 3x - 2x^2) \log(-2 + x)) \log^2\left(\frac{1}{2}(1 + 2x)\right)}{(-2x^2 - 3x^3 + 2x^4) \log^3(-2 + x)}$$

= Exception raised: TypeError

input `integrate(((((-2*x**2+3*x+2)*ln(-2+x)-4*x**2-2*x)*ln(1/2+x)**2+(4*x**2-8*x)*ln(-2+x)*ln(1/2+x)))/(2*x**4-3*x**3-2*x**2)/ln(-2+x)**3,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1661

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^5 + x^3 \log(x) + (-32x^3 \log(\frac{4}{x}) + 64x^3 \log(\frac{4}{x}) \log(x)) \log(\log(\frac{4}{x})) \log(\log(\log(\frac{4}{x}))) \log(\log(\log(\log(\frac{4}{x}))))}{(64x^6 \log(\frac{4}{x}) + 48x^4 \log(\frac{4}{x}) \log(x) + 12x^2 \log(\frac{4}{x}) \log(x) \log(x))} dx$$

= Exception raised: TypeError

input

```
integrate(((4*x**3*ln(4/x)*ln(x)+2*x**3*ln(4/x))*ln(ln(4/x))*ln(ln(ln(4/x)))
)))*ln(ln(ln(ln(4/x))))*ln(ln(ln(ln(ln(4/x)))))+(64*x**3*ln(4/x)*ln(x)-32*
x**3*ln(4/x))*ln(ln(4/x))*ln(ln(ln(4/x)))*ln(ln(ln(ln(4/x))))+x**3*ln(x)+
4*x**5)/(ln(4/x)*ln(x)**3+12*x**2*ln(4/x)*ln(x)**2+48*x**4*ln(4/x)*ln(x)+64
*x**6*ln(4/x))/ln(ln(4/x))/ln(ln(ln(4/x)))/ln(ln(ln(ln(4/x))))),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1705

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{2x^2}{\log(\log(x))}} (-2x + 4x \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

input

```
integrate(((4*x*ln(x)*ln(ln(x))-2*x)*exp(x**2/ln(ln(x))))**2+ln(x)*ln(ln(x)
)**2)/ln(x)/ln(ln(x))**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1820

Sympy [F(-2)]

Exception generated.

$$\int \frac{4 + (1 + x) \log\left(\frac{3}{x^2}\right) \log^2\left(\log^2\left(\frac{3}{x^2}\right)\right)}{x \log\left(\frac{3}{x^2}\right) \log\left(\log^2\left(\frac{3}{x^2}\right)\right) + ((-x + x^2) \log\left(\frac{3}{x^2}\right) + x \log\left(\frac{3}{x^2}\right) \log(x)) \log^2\left(\log^2\left(\frac{3}{x^2}\right)\right)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((1+x)*ln(3/x**2)*ln(ln(3/x**2)**2)**2+4)/((x*ln(3/x**2)*ln(x)+(x**2-x)*ln(3/x**2))*ln(ln(3/x**2)**2)**2+x*ln(3/x**2)*ln(ln(3/x**2)**2)),x)
```

output

```
Exception raised: PolynomialError >> 1/(2*_t0**3*x + 4*_t0**2*x**2 - 4*_t0**2*x - _t0**2*x*log(3) + 2*_t0*x**3 - 4*_t0*x**2 - 2*_t0*x**2*log(3) + 2*_t0*x + 2*_t0*x*log(3) - x**3*log(3) + 2*x**2*log(3) - x*log(3)) contains an element of t
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1945

Sympy [F(-2)]

Exception generated.

$$\int \frac{2x^3 - 4x^4 + (6x - 12x^2 - 4x^3 + 3x^4 + x^5) \log(-x + x^2) + (-12x + 6x^2 + 6x^3) \log^2(-x + x^2) + (-10x^2 + 6x^3 - 4x^4 + 2x^5) \log^3(-x + x^2)}{(-x^4 + x^5) \log(-x + x^2) + (-6x^2 + 6x^3) \log^2(-x + x^2) + (-9 + 8x + x^2) \log^3(-x + x^2)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((x**2+9*x-10)*ln(x**2-x)**3+(6*x**3+6*x**2-12*x)*ln(x**2-x)**2+(x**5+3*x**4-4*x**3-12*x**2+6*x)*ln(x**2-x)-4*x**4+2*x**3)/((x**2+8*x-9)*ln(x**2-x)**3+(6*x**3-6*x**2)*ln(x**2-x)**2+(x**5-x**4)*ln(x**2-x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**6 + 34*x**5 + 415*x**4 + 1980*x**3 + 1215*x**2 - 10206*x + 6561) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 1951

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-2-x}{(-x+2x^3)\log(x)}} (-2-x+4x^2+2x^3+(-2+12x^2+4x^3)\log(x))}{(x^2-4x^4+4x^6)\log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((4*x**3+12*x**2-2)*ln(x)+2*x**3+4*x**2-x-2)*exp((-2-x)/(2*x**3-x)/ln(x))/(4*x**6-4*x**4+x**2)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2019

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^3 + 4x^2 \log(5) + (x - 8x^4 + (1 - 8x^2 - 8x^3) \log(5)) \log(x) \log(\log(x)) + (4x^2 + 4x \log(5) + (-12x^3 - \dots)}{\dots}$$

= Exception raised: TypeError

input

```
integrate((((-4*x*ln(5)-4*x**2)*ln(x)*ln(ln(x))*ln(x**2/(ln(5)**2+2*x*ln(5)
+x**2)/ln(ln(x)))*2+(((12*x**2-8*x)*ln(5)-12*x**3)*ln(x)*ln(ln(x))+4*x*ln
(5)+4*x**2)*ln(x**2/(ln(5)**2+2*x*ln(5)+x**2)/ln(ln(x)))+((-8*x**3-8*x**2
+1)*ln(5)-8*x**4+x)*ln(x)*ln(ln(x))+4*x**2*ln(5)+4*x**3)/(2*ln(5)+2*x)/ln(
x)/ln(ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2117

Sympy [F(-2)]

Exception generated.

$$\int \frac{(320 + 1264x + 1740x^2 + 925x^3 + 125x^4) \log\left(\frac{5+x}{5}\right) + (250x + 50x^2 + (250x + 50x^2) \log(2)) \log^2\left(\frac{5+x}{5}\right)}{(320x + 1264x^2 + 1740x^3 + 925x^4 + 125x^5) \log(x) \log\left(\frac{5+x}{5}\right) + (-320x - 1264x^2 - 1740x^3 - 925x^4 - \dots)}$$

= Exception raised: PolynomialError

input

```
integrate(((((-50*x**2-250*x)*ln(1+1/5*x)-125*x**4-300*x**3-240*x**2-64*x)*
ln(x)+((50*x**2+250*x)*ln(2)+50*x**2+250*x)*ln(1+1/5*x)**2+(125*x**4+925*x
**3+1740*x**2+1264*x+320)*ln(1+1/5*x))/((125*x**5+925*x**4+1740*x**3+1264*
x**2+320*x)*ln(1+1/5*x)*ln(x)+((-125*x**5-925*x**4-1740*x**3-1264*x**2-320
*x)*ln(2)-125*x**5-925*x**4-1740*x**3-1264*x**2-320*x)*ln(1+1/5*x)**2),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**2*log(2) + x**2 + 5*x*log(2) +
5*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2164

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{135x}{-5x^2+\log(x)}} (-270x + 1350x^3 + 50x^4 + (270x - 20x^2) \log(x) + 2 \log^2(x))}{375x^4 - 150x^2 \log(x) + 15 \log^2(x)} dx$$

= Exception raised: TypeError

input `integrate((2*ln(x)**2+(-20*x**2+270*x)*ln(x)+50*x**4+1350*x**3-270*x)*exp(135*x/(ln(x)-5*x**2))/(15*ln(x)**2-150*x**2*ln(x)+375*x**4),x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'`

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2240

Sympy [F(-2)]

Exception generated.

$$\int \frac{8x - 16x^3 - 16x^4 + e^8(-48x^3 - 48x^4) + e^{12}(16x^3 + 16x^4) + e^4(-8x + 48x^3 + 48x^4) + (-4 + 24x^2 + 16x^3 - 16x^4 + 48e^4x^3)}{-16x^4 + 48e^4x^3} dx$$

= Exception raised: TypeError

input `integrate((((16*x*exp(4)-16*x+8)*ln(x)+32*x*exp(4)-32*x+16)*ln(ln(x)+2)+(1+x)*ln(x)**4+((6*x**2+6*x)*exp(4)-6*x**2-4*x+2)*ln(x)**3+((12*x**3+12*x**2)*exp(4)**2+(-24*x**3-12*x**2+12*x)*exp(4)+12*x**3-12*x)*ln(x)**2+((8*x**4+8*x**3)*exp(4)**3+(-24*x**4+24*x**2)*exp(4)**2+(24*x**4-24*x**3-48*x**2)*exp(4)-8*x**4+16*x**3+24*x**2-4)*ln(x)+(16*x**4+16*x**3)*exp(4)**3+(-48*x**4-48*x**3)*exp(4)**2+(48*x**4+48*x**3-8*x)*exp(4)-16*x**4-16*x**3+8*x)/(x*ln(x)**4+(6*x**2*exp(4)-6*x**2+2*x)*ln(x)**3+(12*x**3*exp(4)**2+(-24*x**3+12*x**2)*exp(4)+12*x**3-12*x**2)*ln(x)**2+(8*x**4*exp(4)**3+(-24*x**4+24*x**3)*exp(4)**2+(24*x**4-48*x**3)*exp(4)-8*x**4+24*x**3)*ln(x)+16*x**4*exp(4)**3-48*x**4*exp(4)**2+48*x**4*exp(4)-16*x**4),x)`

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2277

Sympy [F(-2)]

Exception generated.

$$\int \frac{x^2 + 2x \log(x) + \log^2(x) + e^{\frac{2(25+ex^2+ex \log(x))}{x^2+x \log(x)}} (-25 - 50x + x^3 + (-25 + 2x^2) \log(x) + x \log^2(x))}{x^2 + 2x \log(x) + \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((x*log(x)**2+(2*x**2-25)*log(x)+x**3-50*x-25)*exp((x*exp(1)*log(x)+x**2*exp(1)+25)/(x*log(x)+x**2))**2+log(x)**2+2*x*log(x)+x**2)/(log(x)**2+2*x*log(x)+x**2), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2344

Sympy [F(-2)]

Exception generated.

$$\int \frac{-4 \log^2(2x) + e^{-e^{\frac{6x^2}{\log(2x)}} + 2x} \left((1 + 2x) \log^2(2x) + e^{\frac{6x^2}{\log(2x)}} (6x^2 - 12x^2 \log(2x)) \right)}{\log^2(2x)} dx$$

= Exception raised: TypeError

input `integrate(((((-12*x**2*ln(2*x)+6*x**2)*exp(6*x**2/ln(2*x)))+(1+2*x)*ln(2*x)*
*2)*exp(-exp(6*x**2/ln(2*x))+2*x)-4*ln(2*x)**2)/ln(2*x)**2,x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2387

Sympy [F(-2)]

Exception generated.

$$\int \frac{-4x \log(x) + 4e^{2x+4e^{2x}x^2} x^2 (8 + 8x) \log(x) + \left(2x + e^{4e^{2x}x^2} (-2 - 2 \log(x)) + 2x \log(x)\right) \log\left(e^{8e^{2x}x^2} - 2\right)}{e^{4e^{2x}x^2} x^2 \log^2(x) - x^3 \log^2(x)}$$

= Exception raised: TypeError

input `integrate(((((-2*ln(x)-2)*exp(exp(ln(2*x)+x)**2)+2*x*ln(x)+2*x)*ln(exp(exp(
ln(2*x)+x)**2)**2-2*x*exp(exp(ln(2*x)+x)**2)+x**2)+(8*x+8)*ln(x)*exp(ln(2*
x)+x)**2*exp(exp(ln(2*x)+x)**2)-4*x*ln(x))/(x**2*ln(x)**2*exp(exp(ln(2*x)+
x)**2)-x**3*ln(x)**2),x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2398

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-x+\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^6x^2}\right)} \left(-2x + e^3(3x^2 - x^4) + (-2 + x - x^2 - 2e^3x^2)\log(x) + 2\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^6x^2}\right)\right)}{e^3(-3x^3 + x^4) + x^2\log(x) + (e^3(6x^2 - 2x^3) - 2x\log(x))\log\left(\frac{e^6(9x^2-6x^3+x^4)+e^3(-6x+2x^2)\log(x)+\log^2(x)}{e^6x^2}\right)}$$

= Exception raised: TypeError

input

```
integrate(((ln(x)**2+((x**2-3*x)*exp(3)+2*x+1)*ln(x)+(2*x**3-5*x**2-3*x)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)+2*ln(x)**2+(-2*x**2*exp(3)-x**2+x-2)*ln(x)+(-x**4+3*x**2)*exp(3)-2*x)*exp((x*ln(x)+x**2)/(ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)-x))/((ln(x)+(x**2-3*x)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)**2+(-2*x*ln(x)+(-2*x**3+6*x**2)*exp(3))*ln((ln(x)**2+(2*x**2-6*x)*exp(3)*ln(x)+(x**4-6*x**3+9*x**2)*exp(3)**2)/x**2/exp(3)**2)+x**2*ln(x)+(x**4-3*x**3)*exp(3)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2405

Sympy [F(-2)]

Exception generated.

$$\int \frac{(16 - 12x^2 + 4x^3 + e^3(-16x^2 - 16x^3 + 28x^4 - 8x^5) + e^3(-16x - 16x^2 + 28x^3 - 8x^4)\log(x))\log\left(\log^2(x^2 + \dots)\right)}{(x^2 + \dots)}$$

= Exception raised: TypeError

input

```
integrate((((2*x**2-4*x)*ln(x)+2*x**3-4*x**2)*ln((x+ln(x))/exp((x**2+x+2)*
exp(3)))*ln(ln((x+ln(x))/exp((x**2+x+2)*exp(3))))**2)**2+((-8*x**4+28*x**3-
16*x**2-16*x)*exp(3)*ln(x)+(-8*x**5+28*x**4-16*x**3-16*x**2)*exp(3)+4*x**3
-12*x**2+16)*ln(ln((x+ln(x))/exp((x**2+x+2)*exp(3))))**2)/(x*ln(x)+x**2)/l
n((x+ln(x))/exp((x**2+x+2)*exp(3))),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2423

Sympy [F(-2)]

Exception generated.

$$\int \frac{240x^2 + 100x^3 + e^x(240x + 100x^2) + (-120x + 50x^2 + e^x(-20x - 50x^2)) \log(x) + (e^x(-120 - 50x) - (12x^3 + 5x^4 + e^x(12x^2 + 5x^3)))}{(12x^3 + 5x^4 + e^x(12x^2 + 5x^3))} dx$$

= Exception raised: TypeError

input

```
integrate(((((-50*x-120)*exp(x)-50*x**2-120*x)*ln(x)+(-50*x-120)*exp(x)-50
*x**2-120*x)*ln((25*x**2+120*x+144)/(exp(x)+x))+((-50*x**2-20*x)*exp(x)+50
*x**2-120*x)*ln(x)+(100*x**2+240*x)*exp(x)+100*x**3+240*x**2)/((5*x**3+12*
x**2)*exp(x)+5*x**4+12*x**3)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2508

Sympy [F(-2)]

Exception generated.

$$\int \frac{-8e^{2x} + e^{e^{e^5} + 2x}(10 - 30x + 10x^2) + (-16e^{2x} + e^{e^{e^5} + 2x}(70 - 80x + 20x^2)) \log\left(\frac{1}{5}\left(4 + e^{e^{e^5}}(-30 + 25x)\right)\right)}{-4 + e^{e^{e^5}}(30 - 25x)}$$

= Exception raised: CoercionFailed

input

```
integrate((((10*x**2-50*x+60)*exp(x)**2*exp(exp(exp(5)))-8*exp(x)**2)*ln(1/5*(-5*x**2+25*x-30)*exp(exp(exp(5)))+4/5)**2+((20*x**2-80*x+70)*exp(x)**2*exp(exp(exp(5)))-16*exp(x)**2)*ln(1/5*(-5*x**2+25*x-30)*exp(exp(exp(5)))+4/5)+(10*x**2-30*x+10)*exp(x)**2*exp(exp(exp(5)))-8*exp(x)**2)/((5*x**2-25*x+30)*exp(exp(exp(5)))-4), x)
```

output

```
Exception raised: CoercionFailed >> Cannot convert 5*exp(exp(exp(5))) of type <class 'sympy.core.mul.Mul'> to ZZ[exp(exp(exp(5))/2),sqrt(16 + 5*exp(exp(exp(5))))]
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2531

Sympy [F(-2)]

Exception generated.

$$\int \frac{16 \log^2(x^2) + e^{2e^{\frac{x}{\log(x^2)}} + 4x} \left((1 + 4x) \log^2(x^2) + e^{e^{\frac{x}{\log(x^2)} + \frac{x}{\log(x^2)}}} (-4x + 2x \log(x^2)) \right) + e^{e^{\frac{x}{\log(x^2)} + 2x}}}{\log^2(x^2)}$$

= Exception raised: TypeError

input

```
integrate((((2*x*ln(x**2)-4*x)*exp(x/ln(x**2))*exp(exp(x/ln(x**2))))+(1+4*x)*ln(x**2)**2)*exp(exp(exp(x/ln(x**2))))+2*x)**2+((8*x*ln(x**2)-16*x)*exp(x/ln(x**2))*exp(exp(x/ln(x**2))))+(16*x+8)*ln(x**2)**2)*exp(exp(exp(x/ln(x**2))))+2*x)+16*ln(x**2)**2/ln(x**2)**2, x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2569

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+5x}{(39x-8x^2-4x^3+x^4)\log(x)}} (-585 + 315x + 20x^2 - 35x^3 + 5x^4 + (-585 + 240x + 140x^2 - 100x^3 + 15x^4) \log(x))}{(1521x^2 - 624x^3 - 248x^4 + 142x^5 - 8x^7 + x^8) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate(((15*x**4-100*x**3+140*x**2+240*x-585)*ln(x)+5*x**4-35*x**3+20*x**2+315*x-585)*exp((5*x-15)/(x**4-4*x**3-8*x**2+39*x)/ln(x))/(x**8-8*x**7+142*x**5-248*x**4-624*x**3+1521*x**2)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2570

Sympy [F(-2)]

Exception generated.

$$\int \frac{-6 - 24x + (-1 - 6x) \log(2x) + (24x + 4 \log(x) + (6x + \log(x)) \log(2x) + (8 + 2 \log(2x)) \log(4 + \log(2x)))}{24x + 4 \log(x) + (6x + \log(x)) \log(2x) + (8 + 2 \log(2x)) \log(4 + \log(2x))}$$

= Exception raised: TypeError

input

```
integrate((((2*ln(2*x)+8)*ln(ln(2*x)+4)+(ln(x)+6*x)*ln(2*x)+4*ln(x)+24*x)*
ln(8/(2*ln(ln(2*x)+4)+ln(x)+6*x))+(-6*x-1)*ln(2*x)-24*x-6)/((2*ln(2*x)+8)*
ln(ln(2*x)+4)+(ln(x)+6*x)*ln(2*x)+4*ln(x)+24*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2849

Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + \log\left(\frac{3}{2x}\right) + \log^2\left(\frac{3}{2x}\right)}{x \log\left(\frac{3}{2x}\right) + (28 + x + \log(2)) \log^2\left(\frac{3}{2x}\right)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((ln(3/2/x)**2+ln(3/2/x)+1)/((ln(2)+x+28)*ln(3/2/x)**2+x*ln(3/2/x
)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**3 + 2*x**2*log(2) + 56*x**2 + x
*log(2)**2 + 56*x*log(2) + 784*x) contains an element of the set of genera
tors.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2865

Sympy [F(-2)]

Exception generated.

$$\int \frac{15 - 21x - 36x^2 + (12 + 12x) \log(x) + (2 + 4x + (2 + 4x) \log(x)) \log(x + x^2) + (-8 + 16x + 24x^2 + (2 + 4x) \log(x)) \log(x + x^2)}{(20x + 129x^2 + 50x^3 + 5x^4) \log^2(x)}$$

= Exception raised: PolynomialError

input

```
integrate((((ln(x)*(1+x)-2*x**2-2*x)*ln(x**2+x)**4+((-7*x-7)*ln(x)+12*x**2+11*x-1)*ln(x**2+x)**2+(12*x+12)*ln(x)-18*x**2-15*x+3)*ln((ln(x)-2*x)*ln(x**2+x)**2-4*ln(x)+6*x-1)/(ln(x**2+x)**2-3))+ln(x)*(1+x)-4*x**2-3*x+1)*ln(x**2+x)**4+((-7*x-7)*ln(x)+24*x**2+16*x-8)*ln(x**2+x)**2+((2+4*x)*ln(x)+4*x+2)*ln(x**2+x)+(12*x+12)*ln(x)-36*x**2-21*x+15)/((ln(x)*(1+x)-2*x**2-2*x)*ln(x**2+x)**4+((-7*x-7)*ln(x)+12*x**2+11*x-1)*ln(x**2+x)**2+(12*x+12)*ln(x)-18*x**2-15*x+3),x)
```

output

```
Exception raised: PolynomialError >> 1/(36*_t0**4*x**4 + 72*_t0**4*x**3 + 36*_t0**4*x**2 - 288*_t0**3*x**5 - 576*_t0**3*x**4 - 288*_t0**3*x**3 + 864*_t0**2*x**6 + 1728*_t0**2*x**5 + 864*_t0**2*x**4 - 1152*_t0*x**7 - 2304*_t0*x**6 - 1152*_t0*x**5 - 1152*_t0*x**4 - 1152*_t0*x**3 - 1152*_t0*x**2 - 1152*_t0*x - 1152)
```

input file name test_cases/extra_tests/361_Hebisch_1Test file number 361Integral number in file 2875**Sympy [F(-2)]**

Exception generated.

$$\int \frac{20x + 129x^2 + 50x^3 + 5x^4 + (60 + 730x + 171x^2 - 20x^3 - 5x^4) \log(x) + (-60 - 387x - 150x^2 - 15x^3)}{(20x + 129x^2 + 50x^3 + 5x^4) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate(((((-15*x**3-150*x**2-387*x-60)*ln((5*x**3+25*x**2+4*x)/(15*x+75)))+(-5*x**4-20*x**3+171*x**2+730*x+60)*ln(x)+5*x**4+50*x**3+129*x**2+20*x)/(5*x**4+50*x**3+129*x**2+20*x)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/361_Hebisch_1
```

```
Test file number 361
```

```
Integral number in file 2893
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-40x^2 + 40x^3 - 10x^4) \log^2(x) + (2 - 3x + x^2) \log(x - x^2) + \log(x) (-2 + 5x - 2x^2 + (2 - 2x + x^2) \log(x))}{(120x^2 - 120x^3 + 30x^4) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((( -10*x**4+40*x**3-40*x**2)*ln(x)**2+((x**2-2*x+2)*ln(-x**2+x)-2*x**2+5*x-2)*ln(x)+(x**2-3*x+2)*ln(-x**2+x))/(30*x**4-120*x**3+120*x**2)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/361_Hebisch_1
```

```
Test file number 361
```

```
Integral number in file 2907
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{-50x^4 + (-450 + 300x - 50x^2 - 150x^4) \log(x) + (450 - 150x - 150x^4) \log^2(x) + (450 - 150x - 50x^4) \log^3(x)}{-x^3 + 25x^5 + (-3x^3 + 75x^5) \log(x) + (225x - 150x^2 + 22x^3 + 75x^5) \log^2(x) + (225x - 150x^2 + 24x^3) \log^3(x)}$$

= Exception raised: PolynomialError

input

```
integrate(((−50*x**4−150*x+450)*ln(x)**3+(−150*x**4−150*x+450)*ln(x)**2+(−150*x**4−50*x**2+300*x−450)*ln(x)−50*x**4)/((25*x**5+24*x**3−150*x**2+225*x)*ln(x)**3+(75*x**5+22*x**3−150*x**2+225*x)*ln(x)**2+(75*x**5−3*x**3)*ln(x)+25*x**5−x**3),x)
```

output

```
Exception raised: PolynomialError >> 1/(390625*x**18 + 1500000*x**16 - 9375000*x**15 + 16222500*x**14 - 27000000*x**13 + 126257400*x**12 - 279045000*x**11 + 391055526*x**10 - 831794400*x**9 + 1973451600*x**8 - 2835405000*x**7 + 327827250
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2918

Sympy [F(-2)]

Exception generated.

$$\int \frac{2x + e^4x^2 + x^4 + e^2(-1 - 2x^3) + e^{2-x}(3x + e^4x^2 + x^4 + e^2(-2 - 2x^3)) + (-1 - 2e^4x + 4e^2)}{-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4) + e^{2-x}(-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)) + (x - 2e^4x^2 - 2x^4 + e^2(-1 - 2e^4x + 4e^2))}{-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4) + e^{2-x}(-x^2 + e^4x^3 + x^5 + e^2(x - 2x^4)) + (x - 2e^4x^2 - 2x^4 + e^2(-1 - 2e^4x + 4e^2))} dx$$

= Exception raised: PolynomialError

input

```
integrate((((exp(2)**2−2*exp(2)*x+x**2)*exp(2−x)+exp(2)**2−2*exp(2)*x+x**2)*ln(exp(2−x)+1)**2+((-2*x*exp(2)**2+4*x**2*exp(2)−2*x**3−1)*exp(2−x)−2*x*exp(2)**2+4*x**2*exp(2)−2*x**3−1)*ln(exp(2−x)+1)+(x**2*exp(2)**2+(−2*x**3−2)*exp(2)+x**4+3*x)*exp(2−x)+x**2*exp(2)**2+(−2*x**3−1)*exp(2)+x**4+2*x)/((x*exp(2)**2−2*x**2*exp(2)+x**3)*exp(2−x)+x*exp(2)**2−2*x**2*exp(2)+x**3)*ln(exp(2−x)+1)**2+((-2*x**2*exp(2)**2+(4*x**3−1)*exp(2)−2*x**4+x)*exp(2−x)−2*x**2*exp(2)**2+(4*x**3−1)*exp(2)−2*x**4+x)*ln(exp(2−x)+1)+(x**3*exp(2)**2+(−2*x**4+x)*exp(2)+x**5−x**2)*exp(2−x)+x**3*exp(2)**2+(−2*x**4+x)*exp(2)+x**5−x**2),x)
```

output

```
Exception raised: PolynomialError >> 1/(_t0*x**4 - 2*_t0*x**3*exp(2) + _t0*x**2*exp(4) + x**4 - 2*x**3*exp(2) + x**2*exp(4)) contains an element of the set of generators.
```

input file name test_cases/extra_tests/361_Hebisch_1

Test file number 361

Integral number in file 2965

Sympy [F(-2)]

Exception generated.

$$\int \frac{-5 \log(3) + (x - 12x^6 - 9x^9) \log^2(x)}{-5x \log(3) \log(x) + (-x^2 + 2x^7 + x^{10}) \log^2(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((( -9*x**9 - 12*x**6 + x) * ln(x)**2 - 5*ln(3)) / ((x**10 + 2*x**7 - x**2) * ln(x)**2 - 5*x*ln(3)*ln(x)), x)
```

output

```
Exception raised: PolynomialError >> 1/(x**18 + 4*x**15 + 4*x**12 - 2*x**10 - 4*x**7 + x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 23

Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x - x^2 + (-2 - x - 2x^2 - 2x^3 - x^4) \log(x) + (-2x - 4x^2 - 2x^3) \log^2(x) + (-2x - x^2) \log^3(x) + (2x^3 + x^4) \log(x) + (4x^2 + 2x^3) \log^2(x) + (2x + x^2) \log^3(x)}{(2x^3 + x^4) \log(x) + (4x^2 + 2x^3) \log^2(x) + (2x + x^2) \log^3(x)}$$

= Exception raised: TypeError

input

```
integrate(((x**2 + 3*x + 2) * ln(x) * ln((2*x**2 + 8*x + 8) * ln(x)) + (-x**2 - 2*x) * ln(x)**3 + (-2*x**3 - 4*x**2 - 2*x) * ln(x)**2 + (-x**4 - 2*x**3 - 2*x**2 - x - 2) * ln(x) - x**2 - 2*x) / ((x**2 + 2*x) * ln(x)**3 + (2*x**3 + 4*x**2) * ln(x)**2 + (x**4 + 2*x**3) * ln(x)), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 63

Sympy [F(-2)]

Exception generated.

$$\int \frac{108x^3 + 30x^4 + 2x^5 + (-108x^3 - 21x^4 - x^5) \log(x) + (27x^3 + 3x^4) \log^2(x) + ((432x^3 + 105x^4 + 7x^5) \log(x) + (-36 - 6x) \log^2(x))}{(36 + 12x + x^2) \log(x) + (-36 - 6x) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((15*x**4+108*x**3)*ln(x)**3+(-4*x**5-87*x**4-432*x**3)*ln(x)**2+(7*x**5+105*x**4+432*x**3)*ln(x))*ln(ln(x))+(3*x**4+27*x**3)*ln(x)**2+(-x**5-21*x**4-108*x**3)*ln(x)+2*x**5+30*x**4+108*x**3)/(9*ln(x)**3+(-6*x-36)*ln(x)**2+(x**2+12*x+36)*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 87

Sympy [F(-2)]

Exception generated.

$$\int \frac{16x^2 - 112x^3 - 128x^2 \log(x) + (-64x^2 + 32x^3 + (-64x + 32x^2) \log(x)) \log(x + \log(x)) + (-8x + 12x^2) \log(x + \log(x))}{(x^2 - x) \ln(x + \ln(x)) + 4x^3 - 8x^2 \ln(x + \ln(x)) - 16x^2 \ln(x) - 16x^3 \ln((x^2 - x) \ln(x + \ln(x)) - 4x^2) / (\ln(x + \ln(x)) + 4x)) + ((8x - 6) \ln(x) + 8x^2 - 6x) \ln(x + \ln(x)) + (24x^2 - 48x) \ln(x) + 24x^3 - 48x^2 \ln(x + \ln(x)) - 96x^2 \ln(x) - 88x^3 + 8x^2 \ln((x^2 - x) \ln(x + \ln(x)) - 4x^2) / (\ln(x + \ln(x)) + 4x)) + ((12x - 8) \ln(x) + 12x^2 - 8x) \ln(x + \ln(x)) + ((32x^2 - 64x) \ln(x) + 32x^3 - 64x^2) \ln(x + \ln(x)) - 128x^2 \ln(x) - 112x^3 + 16x^2) / (((-1 + x) \ln(x) + x^2 - x) \ln(x + \ln(x)) + (4x^2 - 8x) \ln(x) + 4x^3 - 8x^2) \ln(x + \ln(x)) - 16x^2 \ln(x) - 16x^3), x}$$

= Exception raised: TypeError

input

```
integrate(((((-1+x)*ln(x)+x**2-x)*ln(x+ln(x))**2+((4*x**2-8*x)*ln(x)+4*x**3-8*x**2)*ln(x+ln(x))-16*x**2*ln(x)-16*x**3)*ln(((x**2-x)*ln(x+ln(x))-4*x**2)/(ln(x+ln(x))+4*x))**2+((8*x-6)*ln(x)+8*x**2-6*x)*ln(x+ln(x))**2+((24*x**2-48*x)*ln(x)+24*x**3-48*x**2)*ln(x+ln(x))-96*x**2*ln(x)-88*x**3+8*x**2)*ln(((x**2-x)*ln(x+ln(x))-4*x**2)/(ln(x+ln(x))+4*x)))+(12*x-8)*ln(x)+12*x**2-8*x)*ln(x+ln(x))**2+((32*x**2-64*x)*ln(x)+32*x**3-64*x**2)*ln(x+ln(x))-128*x**2*ln(x)-112*x**3+16*x**2)/(((1-x)*ln(x)+x**2-x)*ln(x+ln(x))**2+((4*x**2-8*x)*ln(x)+4*x**3-8*x**2)*ln(x+ln(x))-16*x**2*ln(x)-16*x**3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 89

Sympy [F(-2)]

Exception generated.

$$\int \frac{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x) \log(4x^2) + \log^2(x) \log^2(4x^2) + e^{\frac{4}{-2+e^4+\log(4x^2)}} (4 - 4e^4 + e^8)}{(4 - 4e^4 + e^8) \log^2(x) + (-4 + 2e^4) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((1-ln(x))*ln(4*x**2)**2+((-2*exp(4)+4)*ln(x)+2*exp(4)-4)*ln(4*x**2)+(-exp(4)**2+4*exp(4)+4)*ln(x)+exp(4)**2-4*exp(4)+4)*exp(4/(ln(4*x**2)+exp(4)-2))+ln(x)**2*ln(4*x**2)**2+(2*exp(4)-4)*ln(x)**2*ln(4*x**2)+(exp(4)**2-4*exp(4)+4)*ln(x)**2)/(ln(x)**2*ln(4*x**2)**2+(2*exp(4)-4)*ln(x)**2*ln(4*x**2)+(exp(4)**2-4*exp(4)+4)*ln(x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 383

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-36x^2 + 36x \log(x)) \log(x - \log(x)) + \frac{e^x(-15+15x+(-15x-15x^2+(15+15x)\log(x))\log(x-\log(x)))}{\log(x-\log(x))}}{e^x(15x^2 - 60x^4 + (-15x + 60x^3)\log(x)) + \frac{e^{2x}(-25x^3+25x^2\log(x))}{\log(x-\log(x))} + (18x^3 - 36x^5 + (-18x^2 + 36x^4)\log(x))} dx$$

= Exception raised: PolynomialError

input

```
integrate((((15*x+15)*ln(x)-15*x**2-15*x)*ln(x-ln(x))+15*x-15)*exp(-ln(ln(x-ln(x))))+x)+(36*x*ln(x)-36*x**2)*ln(x-ln(x)))/((25*x**2*ln(x)-25*x**3)*ln(x-ln(x))*exp(-ln(ln(x-ln(x))))+x)**2+((60*x**3-15*x)*ln(x)-60*x**4+15*x**2)*ln(x-ln(x))*exp(-ln(ln(x-ln(x))))+x)+((36*x**4-18*x**2)*ln(x)-36*x**5+18*x**3)*ln(x-ln(x))),x)
```

output

```
Exception raised: PolynomialError >> 1/(-5*_t0*x**2 + 5*x**3) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 431

Sympy [F(-2)]

Exception generated.

$$\int \frac{3x + x^2 + (6x + 2x^2) \log\left(\frac{3+x}{4}\right) + (3x + x^2) \log^2\left(\frac{3+x}{4}\right) + \log^2(x) (3 + x - 9x^2 + \dots)}{\log(x) (-3x^2 - x^3 + (-6x^2 - 2x^3) \log\left(\frac{3+x}{4}\right) + (-3x^2 - x^3) \log^2\left(\frac{3+x}{4}\right)) + \log^2(x) (-3x + 2x^2 - 8x^3 - \dots)}$$

= Exception raised: PolynomialError

input

```
integrate((((3+x)*ln(3/4+1/4*x)**2+(-3*x**3-9*x**2+2*x+6)*ln(3/4+1/4*x)-9*x**2+x+3)*ln(x)**2+(x**2+3*x)*ln(3/4+1/4*x)**2+(2*x**2+6*x)*ln(3/4+1/4*x)+x**2+3*x)/(((x**3+2*x**2-3*x)*ln(3/4+1/4*x)**2+(-3*x**4-7*x**3+4*x**2-6*x)*ln(3/4+1/4*x)-3*x**4-8*x**3+2*x**2-3*x)*ln(x)**2+((-x**3-3*x**2)*ln(3/4+1/4*x)**2+(-2*x**3-6*x**2)*ln(3/4+1/4*x)-x**3-3*x**2)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(_t0**2*x**3 + _t0**2*x**2 - 5*_t0**2*x + 3*_t0**2 - 2*_t0*x**3 - 4*_t0*x**2 + 6*_t0*x + x**3 + 3*x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 480

Sympy [F(-2)]

Exception generated.

$$\int \frac{9 + x + (-27 - 4x) \log(x) + (-3 + 5x) \log^2(x) + (6 - 2x) \log^3(x)}{(9x + x^2) \log(x) + (-3x - 2x^2) \log^2(x) + (-6x + x^2) \log^3(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((6-2*x)*ln(x)**3+(5*x-3)*ln(x)**2+(-4*x-27)*ln(x)+x+9)/((x**2-6*x)*ln(x)**3+(-2*x**2-3*x)*ln(x)**2+(x**2+9*x)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**6 - 24*x**5 + 216*x**4 - 864*x**3 + 1296*x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 491

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x^5 + (-4x^3 - 2x^5) \log(4 + 4x^2 + x^4) + (-6 - 3x^2) \log^2(4 + 4x^2 + x^4)}{(-2x^4 - x^6) \log(4 + 4x^2 + x^4) + (6x - 2x^2 + 3x^3 - x^4 + (2x^2 + x^4) \log(5)) \log^2(4 + 4x^2 + x^4)} dx$$

= Exception raised: PolynomialError

input

```
integrate((( -3*x**2-6)*ln(x**4+4*x**2+4)**2+(-2*x**5-4*x**3)*ln(x**4+4*x**2+4)+4*x**5)/(((x**4+2*x**2)*ln(5)-x**4+3*x**3-2*x**2+6*x)*ln(x**4+4*x**2+4)**2+(-x**6-2*x**4)*ln(x**4+4*x**2+4)),x)
```

output

```
Exception raised: PolynomialError >> 1/(-2*x**4*log(5) + x**4 + x**4*log(5)**2 - 6*x**3 + 6*x**3*log(5) - 4*x**2*log(5) + 2*x**2*log(5)**2 + 11*x**2 - 12*x + 12*x*log(5) + 18) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 538

Sympy [F(-2)]

Exception generated.

$$\int \frac{(4 + 4x) \log(1 + x) + (-4 - 8x) \log^2(1 + x) + \log(3x)(-4x + (4 + 8x) \log(1 + x))}{(x + x^2) \log(3x) \log(1 + x) + (-x - x^2) \log^2(1 + x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((8*x+4)*ln(1+x)-4*x)*ln(3*x)+(-8*x-4)*ln(1+x)**2+(4+4*x)*ln(1+x))/((x**2+x)*ln(1+x)*ln(3*x)+(-x**2-x)*ln(1+x)**2),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**2 + x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 565

Sympy [F(-2)]

Exception generated.

$$\int \frac{(12x + 18x^2 + e^x(12 + 12x + 6x^2) + (6x + 6e^x x) \log(x)) \log(25e^x x^2 + 25x^3 + (50e^x x + 50x^2) \log(x) + 2e^x x^2)}{(2x + 2e^x x^2) \ln(x) + 2e^x x^2} dx$$

= Exception raised: TypeError

input

```
integrate((((3*exp(x)+3*x)*ln(x)+3*exp(x)*x+3*x**2)*ln((25*exp(x)+25*x)*ln(x)**2+(50*exp(x)*x+50*x**2)*ln(x)+25*exp(x)*x**2+25*x**3)**2+((6*exp(x)*x+6*x)*ln(x)+(6*x**2+12*x+12)*exp(x)+18*x**2+12*x)*ln((25*exp(x)+25*x)*ln(x)**2+(50*exp(x)*x+50*x**2)*ln(x)+25*exp(x)*x**2+25*x**3)))/((2*exp(x)+2*x)*ln(x)+2*exp(x)*x+2*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 596

Sympy [F(-2)]

Exception generated.

$$\int \frac{-180x^2 + 60x^3 + e^{\frac{1}{4}(3+4x)}(-36x^2 + 24x^3 - 3x^4) + e^x(36x^2 - 24x^3 + 3x^4)}{25 - 10e^x + e^{2x} + e^{\frac{1}{2}(3+4x)} + e^{\frac{1}{4}(3+4x)}(10 - 2e^x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((-3*x**4+24*x**3-36*x**2)*exp(3/4+x)+(3*x**4-24*x**3+36*x**2)*exp(x)+60*x**3-180*x**2)/(exp(3/4+x)**2+(-2*exp(x)+10)*exp(3/4+x)+exp(x)**2-10*exp(x)+25),x)
```

output

```
Exception raised: PolynomialError >> (-3*_t0*x**4*exp(3/4) + 3*_t0*x**4 - 24*_t0*x**3 + 24*_t0*x**3*exp(3/4) - 36*_t0*x**2*exp(3/4) + 36*_t0*x**2 + 60*x**3 - 180*x**2)/(-2*_t0**2*exp(3/4) + _t0**2 + _t0**2*exp(3/2) - 10*_t0 + 10*_t0*exp(
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 601

Sympy [F(-2)]

Exception generated.

$$\int \frac{96 + e^4(-8 - 2x) + 24x + (96 - 8e^4) \log(x) - 10 \log^2(x)}{(-96x - 24x^2 + e^4(8x + 2x^2)) \log(x) + (10x + 3x^2) \log^2(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((-10*ln(x)**2+(-8*exp(2)**2+96)*ln(x)+(-2*x-8)*exp(2)**2+24*x+96)/((3*x**2+10*x)*ln(x)**2+((2*x**2+8*x)*exp(2)**2-24*x**2-96*x)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(9*x**3 + 60*x**2 + 100*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 760

Sympy [F(-2)]

Exception generated.

$$\int \frac{200x^2 + 80x^3 + (-50x^3 - 20x^4) \log(x) + (-400x - 160x^2 + (100x^2 + 40x^3) \log(x)) \log(x^2) + (200 + 80x) \log(x^2)}{(x^2 + 2x + 1) \log(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((5*x**2+25*x)*ln(x)-20*x-100)*ln(x**2)+(-10*x**2-50*x)*ln(x)
+40*x+200)*ln((-x*ln(x)+4)/x)+(10*x*ln(x)-40)*ln(x**2)**2+(-20*x**2*ln(x)+
5*x**2+125*x+100)*ln(x**2)+10*x**3*ln(x)-5*x**3-85*x**2-100*x)*exp(x*ln((-
x*ln(x)+4)/x)/(2*ln(x**2)-2*x))+((-20*x**2-50*x)*ln(x)+80*x+200)*ln(x**2)*
**2+((40*x**3+100*x**2)*ln(x)-160*x**2-400*x)*ln(x**2)+(-20*x**4-50*x**3)*l
n(x)+80*x**3+200*x**2)/((2*x*ln(x)-8)*ln(x**2)**2+(-4*x**2*ln(x)+16*x)*ln(
x**2)+2*x**3*ln(x)-8*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 909

Sympy [F(-2)]

Exception generated.

$$\int \frac{(1 + e^5 - 2x) \log^2(1 + e^5 - 2x) + e^{\frac{x}{\log(1 + e^5 - 2x)}} (-2x^2 \log(\frac{3x}{2}) + (-x - e^5x + 2x^2) \log(1 + e^5 - 2x) \log(x))}{(x + e^5x - 2x^2) \log^2(1 + e^5 - 2x) \log(\frac{3x}{2})} dx$$

= Exception raised: TypeError

input

```
integrate(((((-x*exp(5)+2*x**2-x)*ln(3/2*x)*ln(exp(5)+1-2*x)-2*x**2*ln(3/2*x))*exp(x/ln(exp(5)+1-2*x)))+(exp(5)+1-2*x)*ln(exp(5)+1-2*x)**2)/(x*exp(5)-2*x**2+x)/ln(3/2*x)/ln(exp(5)+1-2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 922

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-2-e^{\frac{-x+(4-\log(3))\log(x^3)}{\log(x^3)}}} - x \left(e^{\frac{-x+(4-\log(3))\log(x^3)}{\log(x^3)}} (-3 + \log(x^3)) - \log^2(x^3) \right)}{\log^2(x^3)} dx$$

= Exception raised: TypeError

input

```
integrate((((ln(x**3)-3)*exp(((ln(3)+4)*ln(x**3)-x)/ln(x**3))-ln(x**3)**2)*exp(-exp(((ln(3)+4)*ln(x**3)-x)/ln(x**3))-x-2)/ln(x**3)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 939

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{4x^2+x^2 \log(169)}{20 \log(50-x)}} \frac{(-4x^2 - x^2 \log(169) + (-400x + 8x^2 + (-100x + 2x^2) \log(169)) \log(50 - x))}{(-1000 + 20x) \log^2(50 - x)} dx$$

= Exception raised: TypeError

input

```
integrate(((2*(2*x**2-100*x)*ln(13)+8*x**2-400*x)*ln(-x+50)-2*x**2*ln(13)-4*x**2)*exp(1/20*(2*x**2*ln(13)+4*x**2)/ln(-x+50))/(20*x-1000)/ln(-x+50)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1051

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{\frac{1}{15} \left(12+5e^{\frac{2-16x+4x^2+4x \log(25+10x+x^2)}{-4x+x^2+x \log(25+10x+x^2)}} x + \frac{2-16x+4x^2+4x \log(25+10x+x^2)}{-4x+x^2+x \log(25+10x+x^2)} \right)}{(40 + 64x - 28x^2 - 3x^3 + x^4 + (-10 - 42x) \log(25 + 10x + x^2))}}{240x - 72x^2 - 9x^3 + 3x^4 + (-120x + 6x^2 + 6x^3) \log(25 + 10x + x^2)} dx$$

= Exception raised: TypeError

input

```
integrate(((x**2+5*x)*ln(x**2+10*x+25)**2+(2*x**3+2*x**2-42*x-10)*ln(x**2+10*x+25)+x**4-3*x**3-28*x**2+64*x+40)*exp((4*x*ln(x**2+10*x+25)+4*x**2-16*x+2)/(x*ln(x**2+10*x+25)+x**2-4*x))*exp(1/3*x*exp((4*x*ln(x**2+10*x+25)+4*x**2-16*x+2)/(x*ln(x**2+10*x+25)+x**2-4*x))+4/5)/((3*x**2+15*x)*ln(x**2+10*x+25)**2+(6*x**3+6*x**2-120*x)*ln(x**2+10*x+25)+3*x**4-9*x**3-72*x**2+240*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1056

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-2e^x x + 2x^2) \log^2(x) + ((e^x(-10 - 2x) + 10x + 2x^2) \log^2(x) + (10x + 12x^2 + 2x^3 + e^{2x}(10x + 2x^2) -$$

= Exception raised: TypeError

input

```
integrate(((((-2*x-10)*ln(5+x)*ln(x*ln(5+x)))**2+(((((-2*x**2-10*x)*exp(x)+2*x**2+10*x)*ln(x)**2+((2*x+10)*exp(x)-2*x**2-8*x+10)*ln(x))*ln(5+x)+2*x*ln(x)))*ln(x*ln(5+x)))+(((2*x**2+10*x)*exp(x)**2+(-2*x**3-12*x**2-10*x)*exp(x)+2*x**3+12*x**2+10*x)*ln(x)**3+((-2*x-10)*exp(x)+2*x**2+10*x)*ln(x)**2)*ln(5+x)+(-2*exp(x)*x+2*x**2)*ln(x)**2)/(x**2+5*x)/ln(x)**3/ln(5+x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1088

Sympy [F(-2)]

Exception generated.

$$\int \frac{30x^2 - 10x^4 + (30 - 10x^2 + 9x^5 - 6x^7 + x^9 - 60x^6 \log(3)) \log(x) + (18x^3 - 12x^5 + 2x^7 - 120x^4 \log(3)) \log(x)}{(9x^5 - 6x^7 + x^9) \log(x) + (18x^3 - 120x^4 \log(3)) \log(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((20*x**2*ln(x)**2+(40*x**4-50*x**2-30)*ln(x))*ln(ln(x))+(-60*x**2*ln(3)+x**5-6*x**3+9*x)*ln(x)**3+(-120*x**4*ln(3)+2*x**7-12*x**5+18*x**3)*ln(x)**2+(-60*x**6*ln(3)+x**9-6*x**7+9*x**5-10*x**2+30)*ln(x)-10*x**4+30*x**2)/((x**5-6*x**3+9*x)*ln(x)**3+(2*x**7-12*x**5+18*x**3)*ln(x)**2+(x**9-6*x**7+9*x**5)*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1109

Sympy [F(-2)]

Exception generated.

$$\int \frac{-11x + e^{\sqrt[4]{e}}(11x + 12x^2) + (2x + e^{\sqrt[4]{e}}(-2x - 2x^2)) \log(x + e^{\sqrt[4]{e}}(-x - 2x^2))}{-25 - 5x^2 + e^{\sqrt[4]{e}}(25 + 25x + 5x^2 + 5x^3) + (10 + x^2 + e^{\sqrt[4]{e}}(-10 - 10x - x^2 - x^3)) \log(x + e^{\sqrt[4]{e}}(-x - 2x^2))} dx$$

= Exception raised: PolynomialError

input

```
integrate(((((-2*x**2-2*x)*exp(exp(1/4))+2*x)*ln((-x**2-x)*exp(exp(1/4))+x)+(12*x**2+11*x)*exp(exp(1/4))-11*x)/(((1+x)*exp(exp(1/4))-1)*ln((-x**2-x)*exp(exp(1/4))+x)**2+((-x**3-x**2-10*x-10)*exp(exp(1/4))+x**2+10)*ln((-x**2-x)*exp(exp(1/4))+x)+(5*x**3+5*x**2+25*x+25)*exp(exp(1/4))-5*x**2-25),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**2*exp(exp(1/4)) - x + x*exp(exp(1/4))) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1133

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-15+3x}{x+\log(x)}} (15x^3 + 12x^4 + 3x^5 + e^x(-15 - 12x - x^3) + (-15x^2 - 12x^3 - 2x^4) \log(15) + (9x^4 + e^x(-3x - 2x^3 + 4x^2 \log(x) + 2x \log^2(x)))}{2x^3 + 4x^2 \log(x) + 2x \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((( -exp(x)*x-2*x**2*ln(15)+3*x**3)*ln(x)**2+((-2*x**2-3*x)*exp(x)
-7*x**3*ln(15)+9*x**4)*ln(x)+(-x**3-12*x-15)*exp(x)+(-2*x**4-12*x**3-15*x*
*2)*ln(15)+3*x**5+12*x**4+15*x**3)*exp((3*x-15)/(x+ln(x)))/(2*x*ln(x)**2+4
*x**2*ln(x)+2*x**3), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1134

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{180x^3}{(-1+x)\log(x)}} (-180x^2 + 180x^3 + (540x^2 - 360x^3) \log(x))}{(1 - 2x + x^2) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((( -360*x**3+540*x**2)*ln(x)+180*x**3-180*x**2)*exp(-180*x**3/(-1
+x)/ln(x)))/(x**2-2*x+1)/ln(x)**2, x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1177

Sympy [F(-2)]

Exception generated.

$$\int \frac{200x + 300x^2 + 80x^3 + 120x^4 + 8x^5 + 12x^6 + e^{\frac{10}{5+x^2}}(-50x - 20x^3 - 2x^5) + e^{\frac{5}{5+x^2}}(150x - 75x^2 + 10x^3)}{800 + 420x^2 + 100x^3 + 72x^4 + 40x^5 + 4x^6 + 4x^7 + e^{\frac{10}{5+x^2}}(50 - 5x^2 - 8x^4 - x^6) + e^{\frac{5}{5+x^2}}(200x + 300x^2 + 80x^3 + 120x^4 + 8x^5 + 12x^6)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((x**6+2*x**5+10*x**4+30*x**3+25*x**2+50*x)*exp(5/(x**2+5))-4*x**6-8*x**5-40*x**4-80*x**3-100*x**2-200*x)*exp(x)+(-2*x**5-20*x**3-50*x)*exp(5/(x**2+5))**2+(-3*x**6+6*x**5-40*x**4+10*x**3-75*x**2+150*x)*exp(5/(x**2+5))+12*x**6+8*x**5+120*x**4+80*x**3+300*x**2+200*x)/(((x**6+10*x**4+25*x**2)*exp(5/(x**2+5))-4*x**6-40*x**4-100*x**2)*exp(x)+(-x**6-8*x**4-5*x**2+50)*exp(5/(x**2+5))**2+(-x**7+3*x**6-10*x**5+14*x**4-25*x**3-85*x**2-400)*exp(5/(x**2+5))+4*x**7+4*x**6+40*x**5+72*x**4+100*x**3+420*x**2+800), x)
```

output

```
Exception raised: PolynomialError >> 1/(x**8 + 6*x**6 - 11*x**4 - 60*x**2 + 100) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1191

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-128x^3 + 256x^4 + (128x^2 - 256x^3) \log(2) + (-128x^2 + 256x^3 + (128x - 256x^2) \log(2)) \log(x)) \log(-12x^3 - x^4 + x^5 + (-24x^2 - 12x^3 - x^4 + x^5 + (-24x^2$$

= Exception raised: TypeError

input

```
integrate((((64*x**3-64*x**2-768*x)*ln(x)+(64*x**3-832*x-768)*ln(2)-64*x**3+64*x**2+768*x)*ln(x**2-x-12)**2+((-256*x**2+128*x)*ln(2)+256*x**3-128*x**2)*ln(x)+(-256*x**3+128*x**2)*ln(2)+256*x**4-128*x**3)*ln(x**2-x-12))/((x**3-x**2-12*x)*ln(x)**2+(2*x**4-2*x**3-24*x**2)*ln(x)+x**5-x**4-12*x**3), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1204

Sympy [F(-2)]

Exception generated.

$$\int \frac{10x - 20x \log(x) + (45 + 110x + 27x^2) \log^2(x)}{-10x^2 \log(x) + (45x + 55x^2 + 9x^3) \log^2(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((27*x**2+110*x+45)*ln(x)**2-20*x*ln(x)+10*x)/((9*x**3+55*x**2+45*x)*ln(x)**2-10*x**2*ln(x)), x)
```

output

```
Exception raised: PolynomialError >> 1/(81*x**5 + 990*x**4 + 3835*x**3 + 4950*x**2 + 2025*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1252

Sympy [F(-2)]

Exception generated.

$$\int \frac{-28 + 16x + 60000x^4 - 10000x^5 + (24 - 12x - 30000x^4 + 5000x^5) \log(x) + (-4 + 2x + 3750x^4 - 6250x^5) \log^2(x)}{-16x + 10000x^5 + (12x - 5000x^5) \log(x) + (-2x + 625x^5) \log^2(x)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate(((625*x**5+3750*x**4+2*x-4)*ln(x)**2+(5000*x**5-30000*x**4-12*x+24)*ln(x)-10000*x**5+60000*x**4+16*x-28)/((625*x**5-2*x)*ln(x)**2+(-5000*x**5+12*x)*ln(x)+10000*x**5-16*x),x)
```

output

```
Exception raised: PolynomialError >> 1/(390625*x**9 - 2500*x**5 + 4*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1295

Sympy [F(-2)]

Exception generated.

$$\int \frac{-24x + 4e^{2x}x + 12x^2 + e^x(-12 - 8x + 8x^2)}{3x^2 + e^{2x}(1 + x) + e^x(3 + 3x + x^2)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((4*x*exp(x)**2+(8*x**2-8*x-12)*exp(x)+12*x**2-24*x)/((1+x)*exp(x)**2+(x**2+3*x+3)*exp(x)+3*x**2),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**2 + 2*x + 1) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1316

Sympy [F(-2)]

Exception generated.

$$\int \frac{-5x - x^2 - 6x^3 + 10x^4 - 4x^5 + (-10 + 2x)\log(2x) + (-2x - 12x^2 + 20x^3 - 8x^4)\log^2(2x) + (-6x + x^2 + 3x^3 + x^5 + (x +$$

= Exception raised: PolynomialError

input `integrate((((-x**3-3*x)*ln(2*x)**4+(-2*x**4-6*x**2-x)*ln(2*x)**2-x**5-3*x**3-x**2)*ln((x**2+3)*ln(2*x)**2+x**3+3*x+1)/(ln(2*x)**2+x))+(-4*x**3+10*x**2-6*x)*ln(2*x)**4+(-8*x**4+20*x**3-12*x**2-2*x)*ln(2*x)**2+(2*x-10)*ln(2*x)-4*x**5+10*x**4-6*x**3-x**2-5*x)/((x**3+3*x)*ln(2*x)**4+(2*x**4+6*x**2+x)*ln(2*x)**2+x**5+3*x**3+x**2),x)`

output `Exception raised: PolynomialError >> 1/(x**10 + 12*x**8 + 54*x**6 + 108*x**4 + 81*x**2) contains an element of the set of generators.`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1389

Sympy [F(-2)]

Exception generated.

$$\int \frac{15 + 27x + 12x^2 - 3x^3 - 3x^4 + (27x + 24x^2 - 9x^3 - 12x^4)\log(x) + (25x + 40x^2 + 16x^3 - 10x^4}{(-15x - 27x^2 - 12x^3 + 3x^4 + 3x^5)\log(x) + (475x + 1735x^2 + 2364x^3 + 1234x^4 - 222x^5 - 512x^6 - 14$$

= Exception raised: PolynomialError

input

```
integrate(((x**7-8*x**5-10*x**4+16*x**3+40*x**2+25*x)*ln(x)**2+(-12*x**4-9
*x**3+24*x**2+27*x)*ln(x)-3*x**4-3*x**3+12*x**2+27*x+15)/((20*x**9+39*x**8
-141*x**7-512*x**6-222*x**5+1234*x**4+2364*x**3+1735*x**2+475*x)*ln(x)**2+
(3*x**5+3*x**4-12*x**3-27*x**2-15*x)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(400*x**9 + 760*x**8 - 2839*x**7 -
10080*x**6 - 4088*x**5 + 24550*x**4 + 46176*x**3 + 33440*x**2 + 9025*x) co
ntains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1411

Sympy [F(-2)]

Exception generated.

$$\int \frac{12x + 16x^2 + (-14x - 8x^2) \log(x) + (3x + 10x^2 + 8x^3) \log^3(x) + (12 + 16x) \log(3 + 4x)}{(3x + 4x^2) \log^3(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((16*x+12)*ln(3+4*x)+(8*x**3+10*x**2+3*x)*ln(x)**3+(-8*x**2-14*x
)*ln(x)+16*x**2+12*x)/(4*x**2+3*x)/ln(x)**3,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1469

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-x^3 - x^4) \log(x) + (5x^2 + 6x^3 + x^4 + (5x^2 + 6x^3 + x^4) \log(x)) \log(5 + x) + (-500 - 600x - 100x^2) \log(5 + x)}{(5x^2 + x^3) \log(x) \log(5 + x)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((50*x**3+475*x**2+1225*x+500)*ln(5+x)**2+(2*x**4+11*x**3+5*x**2)*ln(x)*ln(5+x))*ln(1/25*((25*x+100)*ln(5+x)+x**2*ln(x))/x/ln(5+x))+(-100*x**2-600*x-500)*ln(5+x)**2+((x**4+6*x**3+5*x**2)*ln(x)+x**4+6*x**3+5*x**2)*ln(5+x)+(-x**4-x**3)*ln(x))/((25*x**2+225*x+500)*ln(5+x)**2+(x**3+5*x**2)*ln(x)*ln(5+x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(75*x**3 + 975*x**2 + 4200*x + 6000) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1480

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{e^{\frac{1}{x^2 \log^2(2+\log(4))}}} \left(-2e^{x + \frac{1}{x^2 \log^2(2+\log(4))}} + e^x (x^2 + x^3) \log^2(2 + \log(4)) \right)}{8x^2 \log^2(2 + \log(4))} dx$$

= Exception raised: GeneratorsError

input

```
integrate(1/8*(-2*exp(x)*exp(1/x**2/ln(2+2*ln(2)))**2)+(x**3+x**2)*exp(x)*ln(2+2*ln(2))**2)*exp(exp(1/x**2/ln(2+2*ln(2)))**2)/x**2/ln(2+2*ln(2))**2,x)
```

output

```
Exception raised: GeneratorsError >> polynomial ring and it's ground domain share generators
```


input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1529

Sympy [F(-2)]

Exception generated.

$$\int \frac{2 + 2x + 2 \log(16) - 2x \log(x) + (26x + 2x^2) \log^2(x)}{(-2x - 2x^2 - 2x \log(16)) \log(x) + (x + 26x^2 + x^3 + x \log(16)) \log^2(x)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((2*x**2+26*x)*ln(x)**2-2*x*ln(x)+8*ln(2)+2*x+2)/((4*x*ln(2)+x**3+26*x**2+x)*ln(x)**2+(-8*x*ln(2)-2*x**2-2*x)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**5 + 52*x**4 + 8*x**3*log(2) + 678*x**3 + 52*x**2 + 208*x**2*log(2) + x + 8*x*log(2) + 16*x*log(2)**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1541

Sympy [F(-2)]

Exception generated.

$$\int \frac{81x^2 + 18x^4 + x^6 + (162x + 18x^3) \log(2) + 81 \log^2(2) + (-81x^2 - 18x^3 - 18x^4 - 2x^5 - x^6 + (-162x - 18x^3) \log(2) + 81 \log^2(2))}{(-81x^2 - 18x^3 - 18x^4 - 2x^5 - x^6 + (-162x - 18x^3) \log(2) + 81 \log^2(2)) \log(x) + (81x^2 + 18x^4 + x^6 + (162x + 18x^3) \log(2) + 81 \log^2(2)) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((x**4*ln(x)**2+(-18*x**2*ln(2)-2*x**5-18*x**3-6*x**2)*ln(x)+81*
ln(2)**2+(18*x**3+162*x)*ln(2)+x**6+18*x**4+9*x**3+78*x**2+27*x)*exp(-3/(x
**2*ln(x)-9*ln(2)-x**3-9*x))-x**4*ln(x)**3+(18*x**2*ln(2)+2*x**5+x**4+18*x
**3)*ln(x)**2+(-81*ln(2)**2+(-18*x**3-18*x**2-162*x)*ln(2)-x**6-2*x**5-18*
x**4-18*x**3-81*x**2)*ln(x)+81*ln(2)**2+(18*x**3+162*x)*ln(2)+x**6+18*x**4
+81*x**2)/(x**6*ln(x)**2+(-18*x**4*ln(2)-2*x**7-18*x**5)*ln(x)+81*x**2*ln(
2)**2+(18*x**5+162*x**3)*ln(2)+x**8+18*x**6+81*x**4),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1629

Sympy [F(-2)]

Exception generated.

$$\int \frac{5 - 25x - 108x^2 - 180x^3 + 36x^2 \log(x) + (15 - 11x - 60x^2 + (-5 + 12x) \log(x)) \log(3 + x)}{360x^2 + 168x^3 - 720x^4 + (-120x^2 + 144x^3) \log(x) + (60x - 44x^2 - 240x^3 + (-20x + 48x^2) \log(x)) \log(3 + x)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((ln(x)-5*x-3)*ln(-ln(x)+5*x+3)**2+((12*x-5)*ln(x)-60*x**2-11*x+
15)*ln(-ln(x)+5*x+3)+36*x**2*ln(x)-180*x**3-108*x**2-25*x+5)/((4*x*ln(x)-2
0*x**2-12*x)*ln(-ln(x)+5*x+3)**2+((48*x**2-20*x)*ln(x)-240*x**3-44*x**2+60
*x)*ln(-ln(x)+5*x+3)+(144*x**3-120*x**2)*ln(x)-720*x**4+168*x**3+360*x**2)
,x)
```

output

```
Exception raised: PolynomialError >> 1/(-_t0*x + 5*x**2 + 3*x) contains an
element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1738

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(15x^2 + 20x^3 - 4x^4) + e^{2x}(24x + 19x^2 - 2x^3) \log(4 - x) + e^{2x}(2x + 2x^2) \log^2(4 - x)}{-2x^2 + e^{2x}(12x^3 - 2x^4) + (-4x + e^{2x}(12x^2 - x^3)) \log(4 - x) + (-2 + e^{2x}x^2) \log^2(4 - x)} dx$$

= Exception raised: PolynomialError

input `integrate(((2*x**2+2*x)*exp(x)**2*ln(-x+4)**2+(-2*x**3+19*x**2+24*x)*exp(x)**2*ln(-x+4)+(-4*x**4+20*x**3+15*x**2)*exp(x)**2)/((exp(x)**2*x**2-2)*ln(-x+4)**2+((-x**3+12*x**2)*exp(x)**2-4*x)*ln(-x+4)+(-2*x**4+12*x**3)*exp(x)**2-2*x**2), x)`

output `Exception raised: PolynomialError >> 1/(x - 4) contains an element of the set of generators.`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1777

Sympy [F(-2)]

Exception generated.

$$\int \frac{-e^{5x}x^5 + e^{10x}(-3x^4 + x^5 - x^6) + (e^{10x}(15x^4 - 4x^5 + 3x^6) + e^{5x}(4x^5 + 5x^6)) \log(x)}{(e^{5x}x^6 + e^{10x}(3x^5 - x^6 + x^7)) \log(x) + (2x^2 + e^{5x}(12x - 4x^2 + 4x^3) + e^{10x}(18 - 12x + 14x^2 - 4x^3 + \dots)) \log^2(x)}$$

= Exception raised: PolynomialError

input `integrate((((3*x**6-4*x**5+15*x**4)*exp(5*x)**2+(5*x**6+4*x**5)*exp(5*x))*ln(x)+(-x**6+x**5-3*x**4)*exp(5*x)**2-x**5*exp(5*x))/(((2*x**4-4*x**3+14*x**2-12*x+18)*exp(5*x)**2+(4*x**3-4*x**2+12*x)*exp(5*x)+2*x**2)*ln(x)**2+((x**7-x**6+3*x**5)*exp(5*x)**2+x**6*exp(5*x))*ln(x)), x)`

output `Exception raised: PolynomialError >> 1/(4*_t0**2*x**8 - 16*_t0**2*x**7 + 72*_t0**2*x**6 - 160*_t0**2*x**5 + 364*_t0**2*x**4 - 480*_t0**2*x**3 + 648*_t0**2*x**2 - 432*_t0**2*x + 324*_t0**2 + 4*_t0*x**11 - 12*_t0*x**10 + 48*_t0*x**9 - 76*_`

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1845

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{4x}(-256 + 64x) + (16 - 5x) \log(2) + (-256 + 64x) \log^2(2) + e^{2x}(-256 - 192x + 64x^2) + (16x - 4x^2) \log(2) + (-256 - 192x + 64x^2) \log^2(2) + e^{2x}(-16x + 4x^2 + 16)}{e^{4x}(-256 - 192x + 64x^2) + (16x - 4x^2) \log(2) + (-256 - 192x + 64x^2) \log^2(2) + e^{2x}(-16x + 4x^2 + 16)} dx$$

= Exception raised: PolynomialError

input

```
integrate((((4*x-16)*exp(x)**4+(-8*x+32)*ln(2)*exp(x)**2+(4*x-16)*ln(2)**2)*ln(-4/(-4+x))**2+((32*x-128)*exp(x)**4+((-64*x+256)*ln(2)-2*x**2+9*x-4)*exp(x)**2+(32*x-128)*ln(2)**2+(-x+4)*ln(2))*ln(-4/(-4+x))+((64*x-256)*exp(x)**4+((-128*x+512)*ln(2)-8*x**2+37*x-16)*exp(x)**2+(64*x-256)*ln(2)**2+(-5*x+16)*ln(2)))/(((4*x**2-12*x-16)*exp(x)**4+(-8*x**2+24*x+32)*ln(2)*exp(x)**2+(4*x**2-12*x-16)*ln(2)**2)*ln(-4/(-4+x))**2+((32*x**2-96*x-128)*exp(x)**4+((-64*x**2+192*x+256)*ln(2)+x**2-4*x)*exp(x)**2+(32*x**2-96*x-128)*ln(2)**2+(-x**2+4*x)*ln(2))*ln(-4/(-4+x))+((64*x**2-192*x-256)*exp(x)**4+((-128*x**2+384*x+512)*ln(2)+4*x**2-16*x)*exp(x)**2+(64*x**2-192*x-256)*ln(2)**2+(-4*x**2+16*x)*ln(2)),x)
```

output

```
Exception raised: PolynomialError >> 1/(4*_t0**2*x**3 - 8*_t0**2*x**2 - 28*_t0**2*x - 16*_t0**2 + 32*_t0*x**3 - 64*_t0*x**2 - 224*_t0*x - 128*_t0 + 64*x**3 - 128*x**2 - 448*x - 256) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1911

Sympy [F(-2)]

Exception generated.

$$\int \frac{(6x^2 + 2x^3) \log(1 - x) + (3 + x - 4x^2) \log^2(1 - x) + ((6x + 2x^2) \log(1 - x) + (-x + x^2) \log^2(1 - x))}{-x^3 + x^4 + (-2x^2 + 2x^3) \log(x) + (-x + x^2) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((x**2-x)*ln(1-x)**2+(2*x**2+6*x)*ln(1-x))*ln(x)+(-4*x**2+x+3)*ln(1-x)**2+(2*x**3+6*x**2)*ln(1-x))/((x**2-x)*ln(x)**2+(2*x**3-2*x**2)*ln(x)+x**4-x**3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 1944

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x x \log(x) + e^x x^2 \log^2(x) + e^{3e^{-x}} \left(-3e^{3e^{-x}} x \log(x) + e^x x \log^2(x) \right) + \left(-e^{3e^{-x} + x} - e^x x \right) \log \left(e^{3e^{-x}} + x \right)}{e^{3e^{-x} + x} x \log^2(x) + e^x x^2 \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((-exp(x)*exp(exp(3/exp(x))))-exp(x)*x)*ln(exp(exp(3/exp(x))))+x)+(-3*x*ln(x)*exp(3/exp(x))+x*exp(x)*ln(x)**2)*exp(exp(3/exp(x)))+x**2*exp(x)*ln(x)**2+x*exp(x)*ln(x))/(x*exp(x)*ln(x)**2*exp(exp(3/exp(x)))+x**2*exp(x)*ln(x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2357

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 8x^2 + (3x - 4x^2 + x^3) \log(x)) \log\left(\frac{1}{3}(8 + (-3 + x) \log(x))\right) + (-6 + 8x - 2x^2 + (2x - 2x^2) \log(x))}{\dots}$$

= Exception raised: TypeError

input

```
integrate(((2*x*ln(x)+2*x-6)*ln(ln(1/3*ln(x)*(-3+x)+8/3))**3+((-x**2+3*x)*ln(x)-8*x)*ln(1/3*ln(x)*(-3+x)+8/3)*ln(ln(1/3*ln(x)*(-3+x)+8/3))**2+((-2*x**2+2*x)*ln(x)-2*x**2+8*x-6)*ln(ln(1/3*ln(x)*(-3+x)+8/3))+((x**3-4*x**2+3*x)*ln(x)+8*x**2-8*x)*ln(1/3*ln(x)*(-3+x)+8/3))/((2*x**2-6*x)*ln(x)+16*x)/ln(1/3*ln(x)*(-3+x)+8/3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2388

Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x^3 + x^5 + (2x^3 - x^5) \log\left(\frac{x}{3}\right) + (320 - 240x - 160x^2 + 62x^3 - 20x^4 + 29x^5 + 10x^6) \log^2\left(\frac{x}{3}\right) + (-2x^4 \log\left(\frac{x}{3}\right) + (80x - 120x^2 + \dots))}{\dots}$$

= Exception raised: PolynomialError

input

```
integrate((((10*x**6+58*x**5+10*x**4-240*x**3+160*x**2)*ln(1/3*x)**2-2*x**5*ln(1/3*x))*ln(((5*x**4-29*x**3-5*x**2+120*x-80)*ln(1/3*x)+x**3)/x**2/ln(1/3*x)))+(10*x**6+29*x**5-20*x**4+62*x**3-160*x**2-240*x+320)*ln(1/3*x)**2+(-x**5+2*x**3)*ln(1/3*x)+x**5-2*x**3)/((5*x**5+29*x**4+5*x**3-120*x**2+80*x)*ln(1/3*x)**2-x**4*ln(1/3*x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(25*x**9 + 290*x**8 + 891*x**7 - 910*x**6 - 6135*x**5 + 3440*x**4 + 15200*x**3 - 19200*x**2 + 6400*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2392

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{1250}{x \log(2x)}} (-2500 - 2500 \log(2x)) + e^{-\frac{2500}{x \log(2x)}} (2500 + 2500 \log(2x))}{x^2 \log^2(2x)} dx$$

= Exception raised: TypeError

input

```
integrate(((2500*ln(2*x)+2500)*exp(-1250/x/ln(2*x))**2+(-2500*ln(2*x)-2500)*exp(-1250/x/ln(2*x)))/x**2/ln(2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2539

Sympy [F(-2)]

Exception generated.

$$\int \frac{50 - 9x + (-3x + 2x^2) \log\left(\frac{5}{x}\right) + (-7x - 2x^2) \log^2\left(\frac{5}{x}\right) + (-x + 2x^2) \log^3\left(\frac{5}{x}\right)}{-27x + x^2 + (31x + 7x^2) \log\left(\frac{5}{x}\right) + (-6x - 7x^2 - x^3) \log^2\left(\frac{5}{x}\right) + (2x - x^2 + x^3) \log^3\left(\frac{5}{x}\right)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((2*x**2-x)*ln(5/x)**3+(-2*x**2-7*x)*ln(5/x)**2+(2*x**2-3*x)*ln(
5/x)-9*x+50)/((x**3-x**2+2*x)*ln(5/x)**3+(-x**3-7*x**2-6*x)*ln(5/x)**2+(7*
x**2+31*x)*ln(5/x)+x**2-27*x),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**10 - 4*x**9 + 14*x**8 - 28*x**7
+ 49*x**6 - 56*x**5 + 56*x**4 - 32*x**3 + 16*x**2) contains an element of
the set of generators.
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2561

Sympy [F(-2)]

Exception generated.

$$\int \frac{5^{\frac{5}{(x+x^2 \log(5)) \log(x)}} e^{-4+5^{\frac{5}{(x+x^2 \log(5)) \log(x)}}} (-5 \log(5) - 5x \log^2(5) + (-5 \log(5) - 10x \log^2(5)) \log(x))}{(x^2 + 2x^3 \log(5) + x^4 \log^2(5)) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((-10*x*ln(5)**2-5*ln(5))*ln(x)-5*x*ln(5)**2-5*ln(5))*exp(5*ln(5)
)/(x**2*ln(5)+x)/ln(x))*exp(exp(5*ln(5))/(x**2*ln(5)+x)/ln(x))-4)/(x**4*ln(
5)**2+2*x**3*ln(5)+x**2)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```


input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2630

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-30 - 12x^2 - 6x^3 + 6x^4) \log^2\left(\frac{5+2x^2+x^3-x^4}{x^2}\right) + \log\left(\frac{2}{x}\right) \left((60 - 6x^3 + 12x^4) \log\left(\frac{5+2x^2+x^3-x^4}{x^2}\right) + (30 + (-5x^3 - 2x^5 - x^6 + x^7) \log^3\left(\frac{2}{x}\right) \right)}{(-5x^3 - 2x^5 - x^6 + x^7) \log^3\left(\frac{2}{x}\right)}$$

= Exception raised: TypeError

input

```
integrate(((((-6*x**4+6*x**3+12*x**2+30)*ln((-x**4+x**3+2*x**2+5)/x**2)**2+(12*x**4-6*x**3+60)*ln((-x**4+x**3+2*x**2+5)/x**2))*ln(2/x)+(6*x**4-6*x**3-12*x**2-30)*ln((-x**4+x**3+2*x**2+5)/x**2)**2)/(x**7-x**6-2*x**5-5*x**3)/ln(2/x)**3,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2647

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{3}(-4-15x)} \left(-75 \log^2(x) + e^{\frac{2}{3}(-1+e^{\frac{x}{\log(x)}})} \left(-75 \log^2(x) + e^{\frac{x}{\log(x)}} (-10 + 10 \log(x)) \right) \right)}{\log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((10*ln(x)-10)*exp(x/ln(x))-75*ln(x)**2)*exp(1/3*exp(x/ln(x))-1/3))-75*ln(x)**2)/exp(5*x+4/3)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/362_Hebisch_2
```

```
Test file number 362
```

```
Integral number in file 2655
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-250x^2 + 50x^3) \log(x) \log(3+x) + (375x + 50x^2 - 25x^3 + (-750x - 250x^2) \log(x)) \log^2(3+x)}{(-54000 + 14400x + 4320x^2 - 1728x^3 + 144x^4) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate(((((-250*x**2-750*x)*ln(x)-25*x**3+50*x**2+375*x)*ln(3+x)**2+(50*x**3-250*x**2)*ln(x)*ln(3+x)))/(144*x**4-1728*x**3+4320*x**2+14400*x-54000)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/362_Hebisch_2
```

```
Test file number 362
```

```
Integral number in file 2656
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x}{4 \log(x)}} \left(-e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} x^5 - x^6 - x^7 + \left(e^{\frac{625-1000x+100x^2+440x^3-71x^4-88x^5+4x^6+8x^7+x^8}{x^4}} \right) \right)}{\dots} dx$$

= Exception raised: TypeError

input

```
integrate(1/4*(((16*x**8+96*x**7+32*x**6-352*x**5-1760*x**3-800*x**2+12000
*x-10000)*exp((x**8+8*x**7+4*x**6-88*x**5-71*x**4+440*x**3+100*x**2-1000*x
+625)/x**4)+8*x**6+4*x**5)*ln(x)**2+(x**5*exp((x**8+8*x**7+4*x**6-88*x**5-
71*x**4+440*x**3+100*x**2-1000*x+625)/x**4)+x**7+x**6)*ln(x)-x**5*exp((x**
8+8*x**7+4*x**6-88*x**5-71*x**4+440*x**3+100*x**2-1000*x+625)/x**4)-x**7-x
**6)*exp(1/4*x/ln(x))/x**5/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2688

Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 + 12x^2) \log^2(x) + e^{\frac{4+4x \log(x)}{x \log(x)}} (-80x - 80x \log(x) + 60x^2 \log^2(x)) + e^{\frac{2(4+4x \log(x))}{x \log(x)}} (-200x - 200x \log(x))}{\log^2(x)}$$

= Exception raised: TypeError

input

```
integrate(((75*x**2*ln(x)**2-200*x*ln(x)-200*x)*exp((4*x*ln(x)+4)/x/ln(x))
**2+(60*x**2*ln(x)**2-80*x*ln(x)-80*x)*exp((4*x*ln(x)+4)/x/ln(x))+(12*x**2
+3)*ln(x)**2)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2709

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x^3}{4+2x+\log(2+x)}} (16 + 16x + 28x^2 + 19x^3 + 4x^4 + (8 + 4x + 6x^2 + 3x^3) \log(2+x) + \log^2(2+x))}{16 + 16x + 4x^2 + (8 + 4x) \log(2+x) + \log^2(2+x)} dx$$

= Exception raised: TypeError

```
input integrate((ln(2+x)**2+(3*x**3+6*x**2+4*x+8)*ln(2+x)+4*x**4+19*x**3+28*x**2+16*x+16)*exp(x**3/(ln(2+x)+2*x+4))/(ln(2+x)**2+(4*x+8)*ln(2+x)+4*x**2+16*x+16),x)
```

```
output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2746

Sympy [F(-2)]

Exception generated.

$$\int \frac{-8x + 8x^2 + (8x - 16x^2) \log(x) + \frac{e^{-3+x^2}(-2x+2x^2+(6x-4x^2-8x^3) \log(x))}{x}}{e^{-3+x^2} \log^2(x) + 4x}$$

= Exception raised: TypeError

```
input integrate(((2*exp(-ln(x)+x**2-3)+8)*ln(ln(5)*exp(-ln(x)+x**2-3)+4*ln(5))**2+(((8*x**2-4*x+4)*ln(x)+4*x)*exp(-ln(x)+x**2-3)-16*x*ln(x)+16*x)*ln(ln(5)*exp(-ln(x)+x**2-3)+4*ln(5))+((-8*x**3-4*x**2+6*x)*ln(x)+2*x**2-2*x)*exp(-ln(x)+x**2-3)+(-16*x**2+8*x)*ln(x)+8*x**2-8*x)/(x*ln(x)**2*exp(-ln(x)+x**2-3)+4*x*ln(x)**2),x)
```

```
output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2942

Sympy [F(-2)]

Exception generated.

$$\int \frac{e(-30x^4 - 5x^5) + (x^3 + 30x^5 + 5x^6) \log^2(x) + (e(60x^2 + 10x^3) + (-x - 60x^3 - 10x^4) \log^2(x)) \log(2x)}{(30x^5 + 5x^6) \log^2(x) + (-60x^3 - 10x^4) \log^2(x) \log(2x)}$$

= Exception raised: TypeError

input

```
integrate((((5*x**2+30*x)*ln(x)**2+(-5*x-30)*exp(1))*ln(2*x)**2+((-10*x**4-60*x**3-x)*ln(x)**2+(10*x**3+60*x**2)*exp(1))*ln(2*x)+(-2*x**3-12*x**2+x+6)*ln(x)**2*ln(6+x)+(5*x**6+30*x**5+x**3)*ln(x)**2+(-5*x**5-30*x**4)*exp(1)))/((5*x**2+30*x)*ln(x)**2*ln(2*x)**2+(-10*x**4-60*x**3)*ln(x)**2*ln(2*x)+(5*x**6+30*x**5)*ln(x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/362_Hebisch_2

Test file number 362

Integral number in file 2964

Sympy [F(-2)]

Exception generated.

$$\int \frac{(\frac{16}{e^{25}} + x) \log(\frac{16}{e^{25}} + x) + (\frac{16x}{e^{25}} + x^2) \log(x) \log^2(\frac{16}{e^{25}} + x) + (-x \log(x) + (-\frac{16}{e^{25}} - x) \log(x) \log(\frac{16}{e^{25}} + x))}{(\frac{16x^2}{e^{25}} + x^3) \log(x) \log^2(\frac{16}{e^{25}} + x)}$$

= Exception raised: TypeError

input

```
integrate((((-exp(4*ln(2)-25)-x)*ln(x)*ln(exp(4*ln(2)-25)+x)-x*ln(x))*ln(1
n(x))+(x*exp(4*ln(2)-25)+x**2)*ln(x)*ln(exp(4*ln(2)-25)+x)**2+(exp(4*ln(2)
-25)+x)*ln(exp(4*ln(2)-25)+x))/(x**2*exp(4*ln(2)-25)+x**3)/ln(x)/ln(exp(4*
ln(2)-25)+x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 25

Sympy [F(-2)]

Exception generated.

$$\int \frac{(8x^2 - 50x^3 - 2x^4 - 16x^5 + 100x^6 + 4x^7) \log^2\left(\frac{1}{x}\right) + (8 - 50x - 2x^2) \log(4 - 25x - x^2) + \log\left(\frac{1}{x}\right) (-50x^2 - 25x + 4)}{(-4x^2 + 25x^3 + x^4) \log^2\left(\frac{1}{x}\right)}$$

= Exception raised: TypeError

input

```
integrate(((4*x**7+100*x**6-16*x**5-2*x**4-50*x**3+8*x**2)*ln(1/x)**2+((2*
x**2+50*x-8)*ln(-x**2-25*x+4)-4*x**2-50*x)*ln(1/x)+(-2*x**2-50*x+8)*ln(-x*
*2-25*x+4))/(x**4+25*x**3-4*x**2)/ln(1/x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 249

Sympy [F(-2)]

Exception generated.

$$\int \frac{\log(x) \log^2(\log(x)) + e^{\frac{3x}{\log(\log(x))}} (-3 + 3 \log(x) \log(\log(x)))}{\log(x) \log^2(\log(x))} dx$$

= Exception raised: TypeError

input `integrate(((3*ln(x)*ln(ln(x))-3)*exp(3/2*x/ln(ln(x))))**2+ln(x)*ln(ln(x))**2)/ln(x)/ln(ln(x))**2,x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 406

Sympy [F(-2)]

Exception generated.

$$\int \frac{2x \log(x) + (-216x^3 + 216x^4 - 72x^5 + 8x^6) \log^3(x) + (6 - 2x + (6 - 4x) \log(x)) \log(9 - 6x + x^2)}{(-27x^3 + 27x^4 - 9x^5 + x^6) \log^3(x)} dx$$

= Exception raised: TypeError

input `integrate((((6-4*x)*ln(x)+6-2*x)*ln(x**2-6*x+9)+(8*x**6-72*x**5+216*x**4-216*x**3)*ln(x)**3+2*x*ln(x))/(x**6-9*x**5+27*x**4-27*x**3)/ln(x)**3,x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 477

Sympy [F(-2)]

Exception generated.

$$\int \frac{(16x - 16x^2 + (96x - 48x^2 + (-32x + 16x^2) \log(x)) \log(-3 + \log(x))) \log^3 \left(-\frac{x^2 \log(3)}{(-2+2x) \log(-3+\log(x))} \right) + \dots}{(3 - 3x + (-1 + x) \log(x)) \log(-\dots)}$$

= Exception raised: TypeError

```
input integrate((((8*x**2-8*x)*ln(x)-24*x**2+24*x)*ln(ln(x)-3)*ln(-x**2*ln(3)/(2*x-2)/ln(ln(x)-3))**4+(((16*x**2-32*x)*ln(x)-48*x**2+96*x)*ln(ln(x)-3)-16*x**2+16*x)*ln(-x**2*ln(3)/(2*x-2)/ln(ln(x)-3))**3)/((-1+x)*ln(x)-3*x+3)/ln(ln(x)-3),x)
```

```
output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 591

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{7-e^{-x+\log(10+5x)}} \left(2x^2 + x^3 + (-4x - 2x^2) \log(10 + 5x) + (2 + x) \log^2(10 + 5x) + e^{-\frac{x}{-x+\log(10+5x)}} (-x^2 + \dots) \right)}{2x^2 + x^3 + (-4x - 2x^2) \log(10 + 5x) + (2 + x) \log^2(10 + 5x)}$$

= Exception raised: TypeError

```
input integrate((((x**2+2*x)*ln(5*x+10)-x**2)*exp(-x/(ln(5*x+10)-x))+(2*x)*ln(5*x+10)**2+(-2*x**2-4*x)*ln(5*x+10)+x**3+2*x**2)/((2*x)*ln(5*x+10)**2+(-2*x**2-4*x)*ln(5*x+10)+x**3+2*x**2)/exp(exp(-x/(ln(5*x+10)-x))-7),x)
```

```
output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```


input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 618

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{-8+x-2\log(x)+10x\log(4-2x-\log(5))}{2x\log(4-2x-\log(5))}} (8x - x^2 + (-12 + 6x + 3\log(5))\log(4 - 2x - \log(5)) + \log(x)(2x + (-4 + (-4x^2 + 2x^3 + x^2\log(5))\log^2(4 - 2x - \log(5))))$$

= Exception raised: TypeError

input

```
integrate((((ln(5)+2*x-4)*ln(-ln(5)+4-2*x)+2*x)*ln(x)+(3*ln(5)+6*x-12)*ln(-ln(5)+4-2*x)-x**2+8*x)*exp(1/2*(-2*ln(x)+10*x*ln(-ln(5)+4-2*x)-8+x)/x/ln(-ln(5)+4-2*x))/(x**2*ln(5)+2*x**3-4*x**2)/ln(-ln(5)+4-2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 634

Sympy [F(-2)]

Exception generated.

$$\int \frac{2496x\log(1-2x) + (240 - 480x)\log^2(1-2x) + (-768x\log(1-2x) + (-192 + 384x)\log^2(1-2x))\log(x)}{-169x^2 + 338x^3 + (104x^2 - 208x^3)\log(x^2) + (-16x^2 + 32x^3)\log^2(x^2)}$$

= Exception raised: TypeError

input

```
integrate((((384*x-192)*ln(1-2*x)**2-768*x*ln(1-2*x))*ln(x**2)+(-480*x+240)*ln(1-2*x)**2+2496*x*ln(1-2*x))/((32*x**3-16*x**2)*ln(x**2)**2+(-208*x**3+104*x**2)*ln(x**2)+338*x**3-169*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 685

Sympy [F(-2)]

Exception generated.

$$\int \frac{1-x}{(x^2 + x \log(\frac{4}{x})) \log(x + \log(\frac{4}{x})) + (2x^2 + 2x \log(\frac{4}{x})) \log^2(x + \log(\frac{4}{x}))} dx$$

= Exception raised: PolynomialError

input

```
integrate((1-x)/((2*x*ln(4/x)+2*x**2)*ln(ln(4/x)+x)**2+(x*ln(4/x)+x**2)*ln(ln(4/x)+x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(_t0*x + x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 771

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-3+x) \log(3-x) + \frac{e^{e^{e^5}} + \frac{e^{e^{e^5}}(e^3+x)}{\log(3-x)}}{\log(3-x)} (-e^3x-x^2+(-3x+x^2) \log(3-x))}{(-3x+x^2) \log(3-x)} dx$$

= Exception raised: TypeError

input `integrate((((x**2-3*x)*ln(3-x)-x*exp(3)-x**2)*exp(-ln(ln(3-x))+exp(exp(5)))
)*exp((exp(3)+x)*exp(-ln(ln(3-x))+exp(exp(5))))+(-3+x)*ln(3-x))/(x**2-3*x)
/ln(3-x),x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 772

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^5(-10 - 2x + 10x^2 + 2x^3) + e^{10}(10 - 8x - 2x^2) \log^2(5 + x) + \log\left(\frac{3e^x}{x}\right) (e^5(-10x - 2x^2) + 4e^{10}x \log(5 + x))}{5x + 11x^2 + 7x^3 + x^4 + e^5(-10x - 12x^2 - 2x^3) \log^2(5 + x) + e^{10}(5x + x^2) \log^4(5 + x)}$$

= Exception raised: TypeError

input `integrate((((4*x*exp(5)**2*ln(5+x)+(-2*x**2-10*x)*exp(5))*ln(exp(ln(3)+x)/x)
)+(-2*x**2-8*x+10)*exp(5)**2*ln(5+x)**2+(2*x**3+10*x**2-2*x-10)*exp(5))/((
x**2+5*x)*exp(5)**2*ln(5+x)**4+(-2*x**3-12*x**2-10*x)*exp(5)*ln(5+x)**2+x*
*4+7*x**3+11*x**2+5*x),x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 869

Sympy [F(-2)]

Exception generated.

$$\int \frac{15 \cdot 2^{1-2e^{e^2}} \cdot e^{e^2} (6 - 2e^6 - 3x)^{2e^{e^2}}}{-6 + 2e^6 + 3x} dx = \text{Exception raised: TypeError}$$

input

```
integrate(30*exp(exp(2))*exp(exp(exp(2))*ln(-exp(6)-3/2*x+3))**2/(2*exp(6)+3*x-6),x)
```

output

```
Exception raised: TypeError >> Invalid NaN comparison
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 875

Sympy [F(-2)]

Exception generated.

$$\int \frac{-2x^2 - 4x^3 + x^4 + (8x + 18x^2 - x^4) \log(4 + x) + (-8x - 18x^2 + x^4) \log^2(4 + x) + ((-8x - 2x^2 - 4x^3) \log(4 + x) + (-4x^3 - x^4) \log(4 + x) + (-4x^2 + 3x^3) \log^2(4 + x))}{(-4x^3 - x^4) \log(4 + x) + (-4x^2 + 3x^3) \log^2(4 + x)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((((x**4+3*x**3-2*x**2+6*x-8)*ln(4+x)**2+(-x**4-4*x**3-2*x**2-8*x)*ln(4+x))*ln((2-2*x)*ln(4+x)+2*x)/ln(4+x))+((x**4-18*x**2-8*x)*ln(4+x)**2+(-x**4+18*x**2+8*x)*ln(4+x)+x**4-4*x**3-2*x**2)/((x**4+3*x**3-4*x**2)*ln(4+x)**2+(-x**4-4*x**3)*ln(4+x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**3 + 2*x**2 - 7*x + 4) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 957

Sympy [F(-2)]

Exception generated.

$$\int \frac{-x^2 + 3x^2 \log(x) - 5 \log(4) \log^2(x)}{-x^3 \log(x) + (-5 + 5x \log(4)) \log^2(x)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((-10*ln(2)*ln(x)**2+3*x**2*ln(x)-x**2)/((10*x*ln(2)-5)*ln(x)**2-x**3*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(20*x**3*log(2)**2 - 20*x**2*log(2) + 5*x) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1148

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-20x + e^{3+2x}(16x + 16x^2 + 4x^3)) \log(x) \log\left(\frac{-5x + e^{3+2x}(2+x)}{2+x}\right) + (20x + 10x^2 + e^{3+2x}(-8 - 8x - 2x^2)) \log^5\left(\frac{-5x + e^{3+2x}(2+x)}{2+x}\right)}{(-10x - 5x^2 + e^{3+2x}(4 + 4x + x^2)) \log^5\left(\frac{-5x + e^{3+2x}(2+x)}{2+x}\right)} = \text{Exception raised: TypeError}$$

input

```
integrate((((x**2+4*x+4)*exp(3+2*x)-5*x**2-10*x)*ln(x)+(-2*x**2-8*x-8)*exp(3+2*x)+10*x**2+20*x)*ln(((2+x)*exp(3+2*x)-5*x)/(2+x))**2+((4*x**3+16*x**2+16*x)*exp(3+2*x)-20*x)*ln(x)*ln(((2+x)*exp(3+2*x)-5*x)/(2+x)))/((x**2+4*x+4)*exp(3+2*x)-5*x**2-10*x)/ln(x)**3,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1164

Sympy [F(-2)]

Exception generated.

$$\int \frac{9x + 12x^2 + 18x^3 - 6x^4 - 6x^2 \log(x) + (24x^2 - 12x^4 - 12x^2 \log(x) + (-36x + 18x^3 + 18x \log(x)) \log(x))}{4x - 2x^3 - 2x \log(x) + (-6 + 3x^2 + 3 \log(x)) \log(-2 + x)} dx$$

= Exception raised: TypeError

input

```
integrate((((18*x*ln(x)+18*x**3-36*x)*ln(ln(x)+x**2-2)-12*x**2*ln(x)-12*x**4+24*x**2)*ln(3*ln(ln(x)+x**2-2)-2*x)-6*x**2*ln(x)-6*x**4+18*x**3+12*x**2+9*x)/((3*ln(x)+3*x**2-6)*ln(ln(x)+x**2-2)-2*x*ln(x)-2*x**3+4*x), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1265

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{20+5x+x \log(x)+5 \log^2(x)}{4+x+\log^2(x)}} \frac{(-128 - 56x - 6x^2 + 8x \log(x) + (-64 - 18x) \log^2(x) + 2x \log^3(x) - 8 \log^4(x))}{16x^5 + 8x^6 + x^7 + (8x^5 + 2x^6) \log^2(x) + x^5 \log^4(x)} dx$$

= Exception raised: TypeError

input

```
integrate((-8*ln(x)**4+2*x*ln(x)**3+(-18*x-64)*ln(x)**2+8*x*ln(x)-6*x**2-56*x-128)*exp((5*ln(x)**2+x*ln(x)+20+5*x)/(ln(x)**2+4+x))/(x**5*ln(x)**4+(2*x**6+8*x**5)*ln(x)**2+x**7+8*x**6+16*x**5), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1313

Sympy [F(-2)]

Exception generated.

$$\int \frac{((-320 - 16x - 1280x^2 - 64x^3) \log\left(\frac{20+x}{4}\right) + (1280x^2 + 64x^3) \log(x^2) \log\left(\frac{20+x}{4}\right)) \log\left(\frac{16+64x^2}{\log(x^2)}\right) + (-4x^4 - 1280x^3 - 1280x^2 - 64x) \log(x^2) \log^2\left(\frac{20+x}{4}\right)}{(20x + x^2 + 80x^3 + 4x^4) \log(x^2) \log^2\left(\frac{20+x}{4}\right)} dx$$

= Exception raised: TypeError

input

```
integrate((( -16*x**3-4*x)*ln(x**2)*ln((64*x**2+16)/ln(x**2))**2+((64*x**3+1280*x**2)*ln(5+1/4*x)*ln(x**2)+(-64*x**3-1280*x**2-16*x-320)*ln(5+1/4*x))*ln((64*x**2+16)/ln(x**2)))/(4*x**4+80*x**3+x**2+20*x)/ln(5+1/4*x)**2/ln(x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1350

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{12}{(-15+20x) \log(x \log^2(2))}} (72 - 96x - 96x \log(x \log^2(2)))}{(45x - 120x^2 + 80x^3) \log^2(x \log^2(2))} dx = \text{Exception raised: TypeError}$$

input

```
integrate((-96*x*ln(x*ln(2)**2)-96*x+72)*exp(12/(20*x-15)/ln(x*ln(2)**2))/(80*x**3-120*x**2+45*x)/ln(x*ln(2)**2)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 1422
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-8x + 12x^2 + 72x^3 + 32x^4) \log(x) + (64 - 216x - 148x^2 - 44x^3 - 16x^4 + (224x + 284x^2 + 60x^3 + 32x^4) \log^2(x))}{(8x + x^2 + x^3) \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((32*x**4+60*x**3+284*x**2+224*x)*ln(x)-16*x**4-44*x**3-148*x**2-216*x+64)*ln(x**2+x+8)+(32*x**4+72*x**3+12*x**2-8*x)*ln(x))/(x**3+x**2+8*x)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 1508
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{2358774e^{2x} + 2358774e^x x^2}{5x^2 + e^{2x}(5+x) + e^x(10x+x^2)} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((2358774*exp(x)**2+2358774*exp(x)*x**2)/((5+x)*exp(x)**2+(x**2+10*x)*exp(x)+5*x**2),x)
```


output

```
Exception raised: PolynomialError >> 1/(x**2 + 10*x + 25) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1569

Sympy [F(-2)]

Exception generated.

$$\int \frac{16x^2 + (160x + 32x^2) \log(2) + e^x(-8x^2 + (-40x - 36x^2) \log(2) + (40x + (100 + 180x) \log(2)) \log(2))}{16x^3 + (80x^2 + 32x^3) \log(2) + e^x(-8x^3 + (-20x^2 - 16x^3) \log(2) + (40x^2 + (100x + 80x^2) \log(2)) \log(2))} \log(2) dx$$

= Exception raised: PolynomialError

input

```
integrate((((50*ln(2)+25)*ln(5)**2+(-20*x*ln(2)-10*x)*ln(5)+2*x**2*ln(2)+x**2)*exp(x)**2+(((180*x+100)*ln(2)+40*x)*ln(5)+(-36*x**2-40*x)*ln(2)-8*x**2)*exp(x)+(32*x**2+160*x)*ln(2)+16*x**2)/(((50*x*ln(2)+25*x)*ln(5)**2+(-20*x**2*ln(2)-10*x**2)*ln(5)+2*x**3*ln(2)+x**3)*exp(x)**2+(((80*x**2+100*x)*ln(2)+40*x**2)*ln(5)+(-16*x**3-20*x**2)*ln(2)-8*x**3)*exp(x)+(32*x**3+80*x**2)*ln(2)+16*x**3),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**2 + 2*x**2*log(2) - 20*x*log(2) *log(5) - 10*x*log(5) + 25*log(5)**2 + 50*log(2)*log(5)**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1573

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^4(4 - 4x + 9x^2 - 9x^3) + (36x^3 - 36x^2 \log(x)) \log(48 + 108x^2) + (4 - 4x + e^8(4x + 9x^3) + e^4(-4x^2 - 9x^4) + e^4(4x + 9x^3) \log(x) + (-4x^2 - 9x^4 + e^4(8x + 18x^3) + (4x + 9x^3) \log(x))}{e^8(4x + 9x^3) + e^4(-4x^2 - 9x^4) + e^4(4x + 9x^3) \log(x) + (-4x^2 - 9x^4 + e^4(8x + 18x^3) + (4x + 9x^3) \log(x))} dx$$

= Exception raised: PolynomialError

input

```
integrate(((9*x**3+9*x**2-4*x+4)*ln(108*x**2+48)**2+(-36*x**2*ln(x)+36*x**3)*ln(108*x**2+48)+(-9*x**3+9*x**2-4*x+4)*exp(4))/((9*x**3+4*x)*ln(108*x**2+48)**4+((9*x**3+4*x)*ln(x)+(18*x**3+8*x)*exp(4)-9*x**4-4*x**2)*ln(108*x**2+48)**2+(9*x**3+4*x)*exp(4)*ln(x)+(9*x**3+4*x)*exp(4)**2+(-9*x**4-4*x**2)*exp(4)),x)
```

output

```
Exception raised: PolynomialError >> 1/(81*x**6 + 72*x**4 + 16*x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1592

Sympy [F(-2)]

Exception generated.

$$\int \frac{-25x + \left(100e^{2e^{\frac{4e^5 + \log(5)}{e^5}}} - 25x\right) \log\left(4e^{2e^{\frac{4e^5 + \log(5)}{e^5}}} - x\right) \log\left(\log\left(4e^{2e^{\frac{4e^5 + \log(5)}{e^5}}} - x\right)\right)}{\left(4e^{2e^{\frac{4e^5 + \log(5)}{e^5}}} - x\right) \log\left(4e^{2e^{\frac{4e^5 + \log(5)}{e^5}}} - x\right)} dx$$

= Exception raised: CoercionFailed

input

```
integrate(((100*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-25*x)*ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x)*ln(ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x))-25*x)/(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x)/ln(4*exp(exp((ln(5)+4*exp(5))/exp(5)))**2-x),x)
```

output

```
Exception raised: CoercionFailed >> Cannot convert x - 4*exp(2*5**exp(-5)*
exp(4)) of type <class 'sympy.core.add.Add'> to QQ[x,exp(5**exp(-5)*exp(4)
)]
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1616

Sympy [F(-2)]

Exception generated.

$$\int \frac{-9 + e^{e^x}(-3 - 3e^x x - 6 \log(5)) + e^{2e^x}(-\log(5) - \log^2(5))}{-90 + 45x + e^{e^x}(15x + (-60 + 30x) \log(5)) + e^{2e^x}(5x \log(5) + (-10 + 5x) \log^2(5))} dx$$

= Exception raised: PolynomialError

input

```
integrate((((-ln(5)**2-ln(5))*exp(exp(x))**2+(-3*exp(x)*x-6*ln(5)-3)*exp(ex
p(x))-9)/(((5*x-10)*ln(5)**2+5*x*ln(5))*exp(exp(x))**2+((30*x-60)*ln(5)+15
*x)*exp(exp(x))+45*x-90),x)
```

output

```
Exception raised: PolynomialError >> 1/(5*x**2*log(5) + 5*x**2*log(5)**3 +
10*x**2*log(5)**2 - 20*x*log(5)**3 - 20*x*log(5)**2 + 20*log(5)**3) conta
ins an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1679

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{x-x^3 \log(x)}{\log^2(x)}} (2 + (-1 - x^2) \log(x) + 3x^2 \log^2(x))}{\log^3(x)} dx = \text{Exception raised: TypeError}$$

input `integrate((3*x**2*ln(x)**2+(-x**2-1)*ln(x)+2)*exp((-x**3*ln(x)+x)/ln(x)**2)/ln(x)**3,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1742

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{-e+\log(3)}{-20-x+\log(x)}} (e - \log(3)) \log(x)}{400 + 40x + x^2 + (-40x - 2x^2) \log(x) + x^2 \log^2(x)} dx = \text{Exception raised: TypeError}$$

input `integrate((-ln(3)+exp(1))*ln(x)*exp((ln(3)-exp(1))/(x*ln(x)-x-20))/(x**2*ln(x)**2+(-2*x**2-40*x)*ln(x)+x**2+40*x+400),x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1758

Sympy [F(-2)]

Exception generated.

$$\int \frac{390625 \log(x) - x \log^2(x) + (390625 + x \log^2(x)) \log(x \log(3)) + x \log^2(x) \log^2(x \log(3))}{(-390625x \log(x) + x^2 \log^2(x)) \log(x \log(3)) + (x + x^2) \log^2(x) \log^2(x \log(3))} dx$$

= Exception raised: PolynomialError

input

```
integrate((x*ln(x)**2*ln(x*ln(3))**2+(x*ln(x)**2+390625)*ln(x*ln(3))-x*ln(x)**2+390625*ln(x))/((x**2+x)*ln(x)**2*ln(x*ln(3))**2+(x**2*ln(x)**2-390625*x*ln(x))*ln(x*ln(3))),x)
```

output

```
Exception raised: PolynomialError >> 1/(x**6 + 4*x**5 + 6*x**4 + 4*x**3 + x**2) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1784

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^2(2x + 2x^2) + e(52x + 4x^2) \log(x) + (50x + 2x^2) \log^2(x) + (e(96 + 48x) + e^2(2x + x^2) + e(4x + 2x^2)) \log^3(x)}{e^2(2x + x^2) + e(4x + 2x^2) \log(x) + (2x + x^2) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((((x**2+2*x)*ln(x)**2+(2*x**2+4*x)*exp(1)*ln(x)+(x**2+2*x)*exp(1)**2+(48*x+96)*exp(1))*ln(2+x)+(2*x**2+50*x)*ln(x)**2+(4*x**2+52*x)*exp(1)*ln(x)+(2*x**2+2*x)*exp(1)**2)/((x**2+2*x)*ln(x)**2+(2*x**2+4*x)*exp(1)*ln(x)+(x**2+2*x)*exp(1)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 1935

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x(10x^3 - 10x^4 + e^3(-10x^2 + 10x^3)) + e^x(20e^3x^2 - 20x^3)}{9x^5 - 18x^6 + 9x^7 + e^3(-9x^4 + 18x^5 - 9x^6) + e^x(-5x^5 + 10x^6 - 5x^7 + e^3(5x^4 - 10x^5 + 5x^6)) + (-36x^5 - 18x^6 + 9x^7 + e^3(-9x^4 + 18x^5 - 9x^6) + e^x(-5x^5 + 10x^6 - 5x^7 + e^3(5x^4 - 10x^5 + 5x^6)) + (-36x^5 - 18x^6 + 9x^7 + e^3(-9x^4 + 18x^5 - 9x^6) + e^x(-5x^5 + 10x^6 - 5x^7 + e^3(5x^4 - 10x^5 + 5x^6)))} dx$$

= Exception raised: TypeError

input

```
integrate(((((-10*exp(3)+10*x)*exp(x)+18*exp(3)-18*x)*ln(-x+exp(3))**2+((-40*x*exp(3)+40*x**2+20*x)*exp(x)+72*x*exp(3)-72*x**2-36*x)*ln(-x+exp(3))+(-30*x**2+20*x)*exp(3)+30*x**3)*exp(x)+(54*x**2-36*x)*exp(3)-54*x**3)*ln(5*exp(x)-9)+(10*x*exp(3)-10*x**2)*exp(x)*ln(-x+exp(3))**2+(20*x**2*exp(3)-20*x**3)*exp(x)*ln(-x+exp(3))+((10*x**3-10*x**2)*exp(3)-10*x**4+10*x**3)*exp(x))/(((5*x**2*exp(3)-5*x**3)*exp(x)-9*x**2*exp(3)+9*x**3)*ln(-x+exp(3))**4+((20*x**3*exp(3)-20*x**4)*exp(x)-36*x**3*exp(3)+36*x**4)*ln(-x+exp(3))**3+(((30*x**4-10*x**3)*exp(3)-30*x**5+10*x**4)*exp(x)+(-54*x**4+18*x**3)*exp(3)+54*x**5-18*x**4)*ln(-x+exp(3))**2+(((20*x**5-20*x**4)*exp(3)-20*x**6+20*x**5)*exp(x)+(-36*x**5+36*x**4)*exp(3)+36*x**6-36*x**5)*ln(-x+exp(3))+((5*x**6-10*x**5+5*x**4)*exp(3)-5*x**7+10*x**6-5*x**5)*exp(x)+(-9*x**6+18*x**5-9*x**4)*exp(3)+9*x**7-18*x**6+9*x**5), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2068

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-6x + 3 \log(4)) \log\left(\frac{x}{2}\right) + (-2x^2 + x \log(4)) \log^2\left(\frac{x}{2}\right) + (3x - 3 \log(4) + (-x^2 + x \log(4))) \log^2\left(\frac{x}{2}\right) \log\left(\frac{x}{2}\right)}{(-x^2 + x \log(4)) \log^2\left(\frac{x}{2}\right)} dx$$

= Exception raised: TypeError

input

```
integrate((((2*x*ln(2)-x**2)*ln(1/2*x)**2-6*ln(2)+3*x)*ln(2*x*ln(2)-x**2)+
(2*x*ln(2)-2*x**2)*ln(1/2*x)**2+(6*ln(2)-6*x)*ln(1/2*x))/(2*x*ln(2)-x**2)/
ln(1/2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2168

Sympy [F(-2)]

Exception generated.

$$\int \frac{(1 + 9x) \log(x) + (-22 - 9x - \log(x)) \log\left(\frac{1}{2}(22 + 9x + \log(x))\right)}{(22x + 9x^2) \log^2(x) + x \log^3(x)} dx$$

= Exception raised: TypeError

input

```
integrate((((-ln(x)-9*x-22)*ln(1/2*ln(x)+9/2*x+11)+(9*x+1)*ln(x))/(x*ln(x)*
*3+(9*x**2+22*x)*ln(x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2247

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{1}{3} \left(9 - x \log \left(\frac{-5x^2 + \log(5) - x^2 \log(-4 + 2x + x^2)}{5x + x \log(-4 + 2x + x^2)} \right) \right)} \left(100x^2 - 50x^3 - 25x^4 + (20 - 12x - 7x^2) \log(5) + (40x^2 - 20x^3 - \dots \right)}{\dots} dx$$

= Exception raised: PolynomialError

input

```
integrate(((((-x**4-2*x**3+4*x**2)*ln(x**2+2*x-4)**2+((x**2+2*x-4)*ln(5)-10*x**4-20*x**3+40*x**2)*ln(x**2+2*x-4)+(5*x**2+10*x-20)*ln(5)-25*x**4-50*x**3+100*x**2)*ln((-x**2*ln(x**2+2*x-4)+ln(5)-5*x**2)/(x*ln(x**2+2*x-4)+5*x)))+(-x**4-2*x**3+4*x**2)*ln(x**2+2*x-4)**2+((-x**2-2*x+4)*ln(5)-10*x**4-20*x**3+40*x**2)*ln(x**2+2*x-4)+(-7*x**2-12*x+20)*ln(5)-25*x**4-50*x**3+100*x**2)*exp(-1/3*x*ln((-x**2*ln(x**2+2*x-4)+ln(5)-5*x**2)/(x*ln(x**2+2*x-4)+5*x))+3)/((3*x**4+6*x**3-12*x**2)*ln(x**2+2*x-4)**2+((-3*x**2-6*x+12)*ln(5)+30*x**4+60*x**3-120*x**2)*ln(x**2+2*x-4)+(-15*x**2-30*x+60)*ln(5)+75*x**4+150*x**3-300*x**2), x)
```

output

```
Exception raised: PolynomialError >> 1/(9*x**5 + 18*x**4 - 36*x**3) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2263

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9x}{6+e^3+\log(\frac{5}{3})+3\log(x)}} + \frac{9x}{6+e^3+\log(\frac{5}{3})+3\log(x)}}{36 + 12e^3 + e^6 - (-12 - 2e^3) \log(\frac{5}{3}) + \log^2(\frac{5}{3}) + (36 + 6e^3 + 6 \log(\frac{5}{3})) \log(x) + 9 \log^2(x)} dx$$

= Exception raised: TypeError

input

```
integrate((27*ln(x)-9*ln(3/5)+9*exp(3)+27)*exp(9*x/(3*ln(x)-ln(3/5)+exp(3)+6))*exp(exp(9*x/(3*ln(x)-ln(3/5)+exp(3)+6)))/(9*ln(x)**2+(-6*ln(3/5)+6*exp(3)+36)*ln(x)+ln(3/5)**2+(-2*exp(3)-12)*ln(3/5)+exp(3)**2+12*exp(3)+36),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2305

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-16x + 28x^2 - 8x^3) \log(x) + (8x - 4x^2 + (8x - 28x^2 + 12x^3) \log(x)) \log(e^{-2x}(-2x^2 + x^3)) + (-16x^2 + 8x^3) \log(x) \log(e^{-2x}(-2x^2 + x^3))}{(-2 + x) \log(x) \log(e^{-2x}(-2x^2 + x^3))} dx$$

= Exception raised: TypeError

input

```
integrate(((8*x**2-16*x)*ln(x)*ln((x**3-2*x**2)/exp(x)**2)*ln(ln((x**3-2*x**2)/exp(x)**2)/x/ln(x))+((12*x**3-28*x**2+8*x)*ln(x)-4*x**2+8*x)*ln((x**3-2*x**2)/exp(x)**2)+(-8*x**3+28*x**2-16*x)*ln(x))/(-2+x)/ln(x)/ln((x**3-2*x**2)/exp(x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2314

Sympy [F(-2)]

Exception generated.

$$\int \frac{(600 - 160x - 136x^2 - 16x^3) \log^2(2x) + e^{\frac{x}{(40+8x)\log(2x)}} (-5x - x^2 + 5x \log(2x) + (200 + 80x + 8x^2) \log^2(2x))}{(200 + 80x + 8x^2) \log^2(2x)}$$

= Exception raised: TypeError

input

```
integrate((((8*x**2+80*x+200)*ln(2*x)**2+5*x*ln(2*x)-x**2-5*x)*exp(x/(8*x+40)/ln(2*x))+(-16*x**3-136*x**2-160*x+600)*ln(2*x)**2)/(8*x**2+80*x+200)/ln(2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2325

Sympy [F(-2)]

Exception generated.

$$\int \frac{-720 + 540x + 3e^{4+x}x^3 + (180x - 6e^{4+x}x^2) \log\left(\frac{x}{\log(5)}\right) + 3e^{4+x}x \log^2\left(\frac{x}{\log(5)}\right) + (-720x - 180x^2 + 3e^{4+x}x^3 - 240x - 60x^2 + e^{4+x}x^2 + (240 + 60x -$$

= Exception raised: TypeError

input

```
integrate(((3*exp(4+x)*ln(x/ln(5))**2+(-6*x*exp(4+x)+180*x+720)*ln(x/ln(5))+3*x**2*exp(4+x)-180*x**2-720*x)*ln((-exp(4+x)*ln(x/ln(5))+x*exp(4+x)-60*x-240)/(ln(x/ln(5))-x))+3*x*exp(4+x)*ln(x/ln(5))**2+(-6*x**2*exp(4+x)+180*x)*ln(x/ln(5))+3*x**3*exp(4+x)+540*x-720)/(exp(4+x)*ln(x/ln(5))**2+(-2*x*exp(4+x)+60*x+240)*ln(x/ln(5))+x**2*exp(4+x)-60*x**2-240*x),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2392

Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + (5 - x) \log(5 - x) + e^3(-100 + 20x) \log^2(5 - x)}{(5 - x) \log(5 - x) + e^3(-100 + 20x) \log^2(5 - x)} dx$$

= Exception raised: PolynomialError

input

```
integrate(((20*x-100)*exp(3)*ln(5-x)**2+(5-x)*ln(5-x)+1)/((20*x-100)*exp(3)*ln(5-x)**2+(5-x)*ln(5-x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(x - 5) contains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2411

Sympy [F(-2)]

Exception generated.

$$\int \frac{75 + 90x + 3x^2 + (120x - 24x^2 + (75 - 30x + 3x^2) \log(\frac{x}{e})) \log\left(\frac{-8x+(-5+x)\log(\frac{x}{e})}{-5+x}\right) \log\left(-\log\left(\frac{-8x+(-5+x)\log(\frac{x}{e})}{-5+x}\right)\right)}{(40x - 8x^2 + (25 - 10x + x^2) \log(\frac{x}{e})) \log\left(\frac{-8x+(-5+x)\log(\frac{x}{e})}{-5+x}\right)}$$

= Exception raised: TypeError

input

```
integrate((((3*x**2-30*x+75)*ln(x/exp(1))-24*x**2+120*x)*ln(((5-x)*ln(x/exp(1))-8*x)/(-5+x))*ln(-ln(((5-x)*ln(x/exp(1))-8*x)/(-5+x)))+3*x**2+90*x+75)/((x**2-10*x+25)*ln(x/exp(1))-8*x**2+40*x)/ln(((5-x)*ln(x/exp(1))-8*x)/(-5+x)),x)
```

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2435

Sympy [F(-2)]

Exception generated.

$$\int \frac{4x - x^2 + e^x(-4x + x^2) + e^{e^x}(-x^2 + e^{2x}(-4x + x^2) + e^x(x + 4x^2 - x^3)) + (-2e^x + 2x) \log\left(\frac{x}{5}\right) + (e^x x - x^2)}{e^x x - x^2}$$

= Exception raised: TypeError

input

```
integrate(((exp(x)*x-x**2)*ln(x-exp(x))+((x**2-4*x)*exp(x)**2+(-x**3+4*x**2+x)*exp(x)-x**2)*exp(exp(x))+(-2*exp(x)+2*x)*ln(1/5*x)+(x**2-4*x)*exp(x)-x**2+4*x)/(exp(x)*x-x**2),x)
```

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2519

Sympy [F(-2)]

Exception generated.

$$\int \frac{(80 - 40x - 2x^2 + x^3) \log(-2 + x) + e^{3e^x+x}(-60x^2 + 30x^3) \log(-2 + x) + (-40x - 10e^{3e^x} x^2 - x^3) \log(-2 + x)}{e^{3e^x} (-20x^2 + 10x^3) \log^2(-2 + x) + (-80x + 40x^2 - 2x^3 + x^4) \log^2(-2 + x)}$$

= Exception raised: TypeError

input

```
integrate(((10*x**2*exp(3*exp(x))-x**3-40*x)*ln((10*x*exp(3*exp(x))+x**2+
40)/x)+(30*x**3-60*x**2)*exp(x)*ln(-2+x)*exp(3*exp(x))+(x**3-2*x**2-40*x+8
0)*ln(-2+x))/((10*x**3-20*x**2)*ln(-2+x)**2*exp(3*exp(x))+(x**4-2*x**3+40*
x**2-80*x)*ln(-2+x)**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2523

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2x}(-3-6x) + 9x^2 + e^{-3+e^x}(-3-3e^x x - 3\log(x))}{(-3e^{2x}x + 3x^3)\log(x) + (e^{2x}x^2 - x^4)\log^2(x) + e^{-3+e^x}(-3x\log(x) + x^2\log^2(x)) + (-3e^{2x}x + 3x^3 + (2x^2\log(x) - 3x)\exp(\exp(x)-3) + (2\exp(x)**2*x**2-2*x**4)*\ln(x) - 3*x*\exp(x)**2+3*x**3)*\ln(-\exp(\exp(x)-3)-\exp(x)**2+x**2))**2 + ((2*x**2*\ln(x) - 3*x)*\exp(\exp(x)-3) + (2*\exp(x)**2*x**2-2*x**4)*\ln(x) - 3*x*\exp(x)**2+3*x**3)*\ln(-\exp(\exp(x)-3)-\exp(x)**2+x**2)) + (x**2*\ln(x)**2-3*x*\ln(x))*\exp(\exp(x)-3) + (\exp(x)**2*x**2-x**4)*\ln(x)**2 + (-3*x*\exp(x)**2+3*x**3)*\ln(x))}, x)$$

= Exception raised: PolynomialError

input

```
integrate(((3*exp(exp(x)-3)-3*exp(x)**2+3*x**2)*ln(-exp(exp(x)-3)-exp(x)*
*2+x**2))+(-3*ln(x)-3*exp(x)*x-3)*exp(exp(x)-3)+(-3*exp(x)**2+3*x**2)*ln(x)
+(-6*x-3)*exp(x)**2+9*x**2)/((x**2*exp(exp(x)-3)+exp(x)**2*x**2-x**4)*ln(-
exp(exp(x)-3)-exp(x)**2+x**2))**2+((2*x**2*ln(x)-3*x)*exp(exp(x)-3)+(2*exp(
x)**2*x**2-2*x**4)*ln(x)-3*x*exp(x)**2+3*x**3)*ln(-exp(exp(x)-3)-exp(x)**2
+x**2)+(x**2*ln(x)**2-3*x*ln(x))*exp(exp(x)-3)+(exp(x)**2*x**2-x**4)*ln(x)
**2+(-3*x*exp(x)**2+3*x**3)*ln(x)),x)
```

output

```
Exception raised: PolynomialError >> 1/(-_t1**2*x**2 - _t2*x**2 + x**4) co
ntains an element of the set of generators.
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2581

Sympy [F(-2)]

Exception generated.

$$\int \frac{36x^3 + 12x^4 + (-36x^3 - 9x^4) \log(x) + (-18 - 9x - x^2) \log^2(5) \log^3(x) + (-18x^3 - 6x^4 + (18x^3 + 6x^4) \log^2(5) \log^3(x)}{(3x^2 + x^3) \log^2(5) \log^3(x)}$$

= Exception raised: TypeError

input

```
integrate((((3*x+9)*ln(5)**2*ln(x)**3+(6*x**4+18*x**3)*ln(x)-6*x**4-18*x**3)*ln(3+x)+(-x**2-9*x-18)*ln(5)**2*ln(x)**3+(-9*x**4-36*x**3)*ln(x)+12*x**4+36*x**3)/(x**3+3*x**2)/ln(5)**2/ln(x)**3,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2610

Sympy [F(-2)]

Exception generated.

$$\int \frac{(6x + 12x^2 + 4x^3) \log^2(3x) + e^{\frac{2(-x^2+x^3)}{\log(3x)}} (6x^2 + 2x^3 - 6x^4 - 2x^5 + (-12x^2 + 2x^3 + 20x^4 + 6x^5) \log(3x))}{\log^2(3x)}$$

= Exception raised: TypeError

input

```
integrate((((3*x**2+8*x+3)*ln(3*x)**2+(6*x**5+20*x**4+2*x**3-12*x**2)*ln(3*x)-2*x**5-6*x**4+2*x**3+6*x**2)*exp((x**3-x**2)/ln(3*x))**2+(4*x**3+12*x**2+6*x)*ln(3*x)**2)/ln(3*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2617

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{5}{x^4 \log(-3x+2x^5)}} (-45 + 150x^4 + (-180 + 120x^4) \log(-3x + 2x^5))}{(-3x^5 + 2x^9) \log^2(-3x + 2x^5)} dx$$

= Exception raised: TypeError

input

```
integrate((((120*x**4-180)*ln(2*x**5-3*x)+150*x**4-45)/(2*x**9-3*x**5)/ln(2*x**5-3*x)**2/exp(5/x**4/ln(2*x**5-3*x)), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2620

Sympy [F(-2)]

Exception generated.

$$\int \frac{x \log(4) + \log^2(4) + e^x (-x^2 \log(4) - x \log^2(4)) + (-x \log(4) + \log^2(4) + e^x (x^3 \log(4) + x^2 \log^2(4))) \log(4)}{(x^3 + x^2 \log(4)) \log(4)} dx$$

= Exception raised: TypeError

input

```
integrate((((4*ln(2)**2+2*x*ln(2))*ln(1/4*x)+4*ln(2)**2+2*x*ln(2))*ln(4*ln(2)**2+4*x*ln(2)+x**2)+((4*x**2*ln(2)**2+2*x**3*ln(2))*exp(x)+4*ln(2)**2-2*x*ln(2))*ln(1/4*x)+(-4*x*ln(2)**2-2*x**2*ln(2))*exp(x)+4*ln(2)**2+2*x*ln(2))/(2*x**2*ln(2)+x**3)/ln(1/4*x)**2, x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 2793
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{-4 \log(5) \log^2\left(\frac{16}{x^2}\right) + e^{\log\left(\frac{16}{x^2}\right)} (8x - 8x^2 + (4x - 4x^2) \log\left(\frac{16}{x^2}\right) - 4 \log^2\left(\frac{16}{x^2}\right))}{3x^2 \log^2\left(\frac{16}{x^2}\right)} dx$$

= Exception raised: TypeError

input

```
integrate(1/3*((-4*ln(16/x**2)**2+(-4*x**2+4*x)*ln(16/x**2)-8*x**2+8*x)*exp(x/ln(16/x**2))-4*ln(5)*ln(16/x**2)**2)/x**2/ln(16/x**2)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

```
input file name test_cases/extra_tests/363_Hebisch_3
```

```
Test file number 363
```

```
Integral number in file 2800
```

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2}{x^2}x+x^2+\log\left(\frac{5}{3}\right)} \left(-4e^{\frac{2}{x^2}} + x^3 - x \log\left(\frac{5}{3}\right)\right)}{x^3} dx = \text{Exception raised: IndexError}$$

input

```
integrate((-4*exp(2/x**2)+x*ln(3/5)+x**3)*exp((x*exp(2/x**2)-ln(3/5)+x**2)/x)/x**3,x)
```


output `Exception raised: IndexError >> Index out of range: a[1]`

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2858

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-400x^5 + (2000x^4 + 400x^5) \log(x)} (-5 + 4x + (-20 - 5x) \log(x))}{200x^7 + (-2000x^6 - 400x^7) \log(x) + (5000x^5 + 2000x^6 + 200x^7) \log^2(x)} dx$$

= Exception raised: TypeError

input `integrate(((-5*x-20)*ln(x)+4*x-5)/((200*x**7+2000*x**6+5000*x**5)*ln(x)**2 +(-400*x**7-2000*x**6)*ln(x)+200*x**7)/exp(-1/((400*x**5+2000*x**4)*ln(x)-400*x**5)),x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2869

Sympy [F(-2)]

Exception generated.

$$\int \frac{4e^5 x^2 \log^2(x) + e^{\frac{3}{e^5 x^2 \log(x)}} \log(2 + e^2) (6 + 12 \log(x) - 4e^5 x^2 \log^2(x)) + e^{\frac{6}{e^5 x^2 \log(x)}} \log^2(2 + e^2) (-3 - 6 \log(x))}{2e^5 x \log^2(2 + e^2) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate(1/2*((x**2*ln(x)**2*exp(5)-6*ln(x)-3)*ln(exp(2)+2)**2*exp(3/x**2
/exp(5)/ln(x))**2+(-4*x**2*ln(x)**2*exp(5)+12*ln(x)+6)*ln(exp(2)+2)*exp(3/
x**2/exp(5)/ln(x))+4*x**2*ln(x)**2*exp(5))/x/exp(5)/ln(x)**2/ln(exp(2)+2)*
*2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2893

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{2+\log(-18-2x+\log(4)+3\log(25))} (-36 - 2x + 2\log(4) + 6\log(25) + (-18 - 2x + \log(4) + 3\log(25)))}{-72 - 8x + 4\log(4) + 12\log(25) + (-72 - 8x + 4\log(4) + 12\log(25)) \log(-18 - 2x + \log(4) + 3\log(25))} dx$$

= Exception raised: TypeError

input

```
integrate(((6*ln(5)+2*ln(2)-2*x-18)*ln(6*ln(5)+2*ln(2)-2*x-18)+12*ln(5)+4*
ln(2)-2*x-36)*exp(x/(ln(6*ln(5)+2*ln(2)-2*x-18)+2))/((6*ln(5)+2*ln(2)-2*x-
18)*ln(6*ln(5)+2*ln(2)-2*x-18)**2+(24*ln(5)+8*ln(2)-8*x-72)*ln(6*ln(5)+2*
ln(2)-2*x-18)+24*ln(5)+8*ln(2)-8*x-72),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Pol
y' and 'int'
```

input file name test_cases/extra_tests/363_Hebisch_3

Test file number 363

Integral number in file 2900

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{2x}{\log(x)}} (-2x^2 + 2x^2 \log(x) + 2x \log^2(x) + e^{-30+2x-2x \log(2x)} (-2 + 2 \log(x) - 2 \log^2(x) \log(2x)) + e^{-15+x-2x \log(2x)})}{5 \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate(1/5*((-2*ln(x)**2*ln(2*x)+2*ln(x)-2)*exp(-x*ln(2*x)+x-15)**2+(2*x*ln(x)**2*ln(2*x)-2*ln(x)**2-4*x*ln(x)+4*x)*exp(-x*ln(2*x)+x-15)+2*x*ln(x)**2+2*x**2*ln(x)-2*x**2)*exp(x/ln(x))**2/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{3+e^{10}(-x^2-x^3)}{-e^{10}x^2+e^{10}x^2 \log\left(\frac{x}{5 \log(x)}\right)}} \left(3 + e^{10}(-x^2 - x^3) + (3 + e^{10}(x^2 + 2x^3)) \log(x) + (-6 - e^{10}x^3) \log(x) \log\left(\frac{x}{5 \log(x)}\right)\right)}{e^{10}x^3 \log(x) - 2e^{10}x^3 \log(x) \log\left(\frac{x}{5 \log(x)}\right) + e^{10}x^3 \log(x) \log^2\left(\frac{x}{5 \log(x)}\right)}$$

= Exception raised: TypeError

input

```
integrate(((x**3*exp(5)**2-6)*ln(x)*ln(1/5*x/ln(x))+((2*x**3+x**2)*exp(5)**2+3)*ln(x)+(-x**3-x**2)*exp(5)**2+3)*exp(((x**3-x**2)*exp(5)**2+3)/(x**2*exp(5)**2*ln(1/5*x/ln(x))-x**2*exp(5)**2))/(x**3*exp(5)**2*ln(x)*ln(1/5*x/ln(x))**2-2*x**3*exp(5)**2*ln(x)*ln(1/5*x/ln(x))+x**3*exp(5)**2*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 11

Sympy [F(-2)]

Exception generated.

$$\int \frac{30 + 30x + e^4(10 + 25x + 15x^2) + (3x + e^4(-15x - 15x^2)) \log(x) + e^4(15 + 15x) \log^2(x) + (-3 - 3x)}{e^4(15x + 15x^2) \log^2(x)}$$

= Exception raised: TypeError

input

```
integrate((( -3*x-3)*ln(1+x)+(15*x+15)*exp(4)*ln(x)**2+((-15*x**2-15*x)*exp(4)+3*x)*ln(x)+(15*x**2+25*x+10)*exp(4)+30*x+30)/(15*x**2+15*x)/exp(4)/ln(x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 95

Sympy [F(-2)]

Exception generated.

$$\int \frac{2x \log(x) + (-x + (x + x^2 - x^3) \log(x)) \log(2x^2) + (-2 \log(x) + (-1 + x^2) \log(x) \log(2x^2)) \log(\log(x))}{-x^3 \log(5) \log(x) \log^2(2x^2) + x^2 \log(5) \log(x) \log^2(2x^2)}$$

= Exception raised: TypeError

input

```
integrate((( -2*x*ln(x)*ln(ln(x))+2*x**2*ln(x))*ln(exp(x)/(ln(ln(x))-x))+((x**2-1)*ln(x)*ln(2*x**2)-2*ln(x))*ln(ln(x))+((-x**3+x**2+x)*ln(x)-x)*ln(2*x**2)+2*x*ln(x))/(x**2*ln(5)*ln(x)*ln(2*x**2)**2*ln(ln(x))-x**3*ln(5)*ln(x))*ln(2*x**2)**2),x)
```

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 101

Sympy [F(-2)]

Exception generated.

$$\int \frac{-36x + 36x^2 + (3x - 3x^2) \log(x) + (33x - 108x^2 + (-3x + 9x^2) \log(x)) \log(2x) + (-36x + 3x \log(x)) \log^2(2x)}{(-12 + \log(x)) \log^2(2x)}$$

= Exception raised: TypeError

input

```
integrate((((-6*x*ln(x)+72*x)*ln(2*x)+3*x*ln(x)-36*x)*ln(1/8*(ln(x)-12)/x)
+((9*x**2-3*x)*ln(x)-108*x**2+33*x)*ln(2*x)+(-3*x**2+3*x)*ln(x)+36*x**2-36
*x)/(ln(x)-12)/ln(2*x)**2,x)
```

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 111

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^x x^3 + (324 + 324x + e^{4x}(324 + 324x)) \log(1 + e^{4x}) + 2e^x x^2 \log(x) + e^x x \log^2(x) + e^{4x} (-1296e^{4x} x^3 + 2x^2 \log(x) + x \log^2(x) + e^{4x} (x^3 + 2x^2 \log(x) + x \log^2(x)))}{x^3 + 2x^2 \log(x) + x \log^2(x) + e^{4x} (x^3 + 2x^2 \log(x) + x \log^2(x))}$$

= Exception raised: TypeError

input

```
integrate((((324*x+324)*exp(exp(4*x))+324*x+324)*ln(exp(exp(4*x))+1)+(x*exp(x)*ln(x)**2+(-1296*x*exp(4*x)+2*exp(x)*x**2)*ln(x)-1296*x**2*exp(4*x)+exp(x)*x**3)*exp(exp(4*x))+x*exp(x)*ln(x)**2+2*x**2*exp(x)*ln(x)+exp(x)*x**3)/((x*ln(x)**2+2*x**2*ln(x)+x**3)*exp(exp(4*x))+x*ln(x)**2+2*x**2*ln(x)+x**3),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 277

Sympy [F(-2)]

Exception generated.

$$\int \frac{(8 + 2x - 2x^2 + e(16x + 4x^2 - 4x^3)) \log(x) + (-4 + 8x + e(-4x + 8x^2)) \log^2(x) \log\left(\frac{x+ex^2}{e}\right) + (-8 - (1+ex) \log(x))}{(1+ex) \log(x)}$$

= Exception raised: TypeError

input

```
integrate(((((-6*x**3+4*x**2+8*x)*exp(1)-6*x**2+4*x+8)*ln(x)+(2*x**3-2*x**2-8*x)*exp(1)+2*x**2-2*x-8)*ln((x**2*exp(1)+x)/exp(1))*ln(ln((x**2*exp(1)+x)/exp(1)))+(8*x**2-4*x)*exp(1)+8*x-4)*ln(x)**2*ln((x**2*exp(1)+x)/exp(1))+((-4*x**3+4*x**2+16*x)*exp(1)-2*x**2+2*x+8)*ln(x))/(exp(1)*x+1)/ln(x)**2/ln((x**2*exp(1)+x)/exp(1)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 310

Sympy [F(-2)]

Exception generated.

$$\int \frac{16e^4 + e^{4+2x}x^2 + e^{4+x}(-4 + 4x)}{-32 + 16x + e^x(-20x + 8x^2) + e^{2x}(-3x^2 + x^3)} dx$$

= Exception raised: PolynomialError

input `integrate((x**2*exp(4)*exp(x)**2+(-4+4*x)*exp(4)*exp(x)+16*exp(4))/((x**3-3*x**2)*exp(x)**2+(8*x**2-20*x)*exp(x)+16*x-32),x)`

output Exception raised: PolynomialError >> 1/(x**4 - 6*x**3 + 9*x**2) contains a n element of the set of generators.

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 366

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{\frac{9+123x+30x^2}{10 \log\left(\frac{2+x^2}{x}\right)}} \left(18 + 246x + 51x^2 - 123x^3 - 30x^4 + (246x + 120x^2 + 123x^3 + 60x^4) \log\left(\frac{2+x^2}{x}\right) + (20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)\right)}{(20 + 10x^2) \log^2\left(\frac{2+x^2}{x}\right)} dx$$

= Exception raised: TypeError

input `integrate(((10*x**2+20)*ln((x**2+2)/x)**2+(60*x**4+123*x**3+120*x**2+246*x)*ln((x**2+2)/x)-30*x**4-123*x**3+51*x**2+246*x+18)*exp(1/10*(30*x**2+123*x+9)/ln((x**2+2)/x))/(10*x**2+20)/ln((x**2+2)/x)**2,x)`

output Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 541

Sympy [F(-2)]

Exception generated.

$$\int \frac{-72x + 144x^2 - 108x^3 + 10x^4 + 15x^5 + (-48x^2 - 72x^3) \log(x) + (-12x^2 + 12x^3 - 36x^4) \log^2(x) + (-72x^2 - 72x^3)}{-72x^2 - 72x^3} dx$$

= Exception raised: PolynomialError

input

```
integrate((((3*x**2+2*x)*ln(x)**4+(12*x+8)*ln(x)**3-15*x**2-10*x)*ln(2+3*x)
)**3+((-9*x**3-6*x**2)*ln(x)**4+(-36*x**2-24*x)*ln(x)**3+(-36*x**2-24*x)*l
n(x)**2+(-72*x-48)*ln(x)+45*x**3+30*x**2)*ln(2+3*x)**2+((9*x**4+6*x**3)*ln
(x)**4+(36*x**3+24*x**2)*ln(x)**3+(72*x**3+12*x**2+12*x)*ln(x)**2+(144*x**
2+96*x)*ln(x)-45*x**4-30*x**3+108*x**2+72*x)*ln(2+3*x)+(-3*x**5-2*x**4)*ln
(x)**4+(-12*x**4-8*x**3)*ln(x)**3+(-36*x**4+12*x**3-12*x**2)*ln(x)**2+(-72
*x**3-48*x**2)*ln(x)+15*x**5+10*x**4-108*x**3+144*x**2-72*x)/(((3*x**2+2*x
)*ln(x)**4-15*x**2-10*x)*ln(2+3*x)**3+((-9*x**3-6*x**2)*ln(x)**4+(-36*x**2
-24*x)*ln(x)**2+45*x**3+30*x**2)*ln(2+3*x)**2+((9*x**4+6*x**3)*ln(x)**4+(7
2*x**3+48*x**2)*ln(x)**2-45*x**4-30*x**3+108*x**2+72*x)*ln(2+3*x)+(-3*x**5
-2*x**4)*ln(x)**4+(-36*x**4-24*x**3)*ln(x)**2+15*x**5+10*x**4-108*x**3-72*
x**2), x)
```

output

```
Exception raised: PolynomialError >> 1/(9*_t0**16*x**4 + 12*_t0**16*x**3 +
4*_t0**16*x**2 - 180*_t0**12*x**4 - 240*_t0**12*x**3 - 80*_t0**12*x**2 +
1350*_t0**8*x**4 + 1800*_t0**8*x**3 + 600*_t0**8*x**2 - 4500*_t0**4*x**4 -
6000*_t0**4*x*
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 659

Sympy [F(-2)]

Exception generated.

$$\int \frac{-50x - 20e^4x - 2e^8x + (-20x - 4e^4x) \log(x) - 2x \log^2(x) + e^{\frac{x^3+x^2 \log(4)}{5+e^4+\log(x)}} (25 + e^8 + 14x^3 + e^4(10 + 3x^3))}{25 + 10e^4 + e^8 + (10 + 2e^4) \log(x) + \dots} dx$$

= Exception raised: TypeError

input

```
integrate(((ln(x)**2+(4*x**2*ln(2)+2*exp(4)+3*x**3+10)*ln(x)+2*(2*x**2*exp(4)+9*x**2)*ln(2)+exp(4)**2+(3*x**3+10)*exp(4)+14*x**3+25)*exp((2*x**2*ln(2)+x**3)/(ln(x)+5+exp(4)))-2*x*ln(x)**2+(-4*x*exp(4)-20*x)*ln(x)-2*x*exp(4)**2-20*x*exp(4)-50*x)/(ln(x)**2+(2*exp(4)+10)*ln(x)+exp(4)**2+10*exp(4)+25),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 749

Sympy [F(-2)]

Exception generated.

$$\int \frac{(e^{10} - e^5x) \log^2(e^{10} - 2e^5x + x^2) + e^{\frac{4x^3}{e^5 \log(e^{10} - 2e^5x + x^2)}} (8x^3 + (12e^5x^2 - 12x^3) \log(e^{10} - 2e^5x + x^2))}{(e^{10} - e^5x) \log^2(e^{10} - 2e^5x + x^2)} dx$$

= Exception raised: TypeError

input

```
integrate((((12*x**2*exp(5)-12*x**3)*ln(exp(5)**2-2*x*exp(5)+x**2)+8*x**3)*exp(4*x**3/exp(5)/ln(exp(5)**2-2*x*exp(5)+x**2))+exp(5)**2-x*exp(5))*ln(exp(5)**2-2*x*exp(5)+x**2)**2/(exp(5)**2-x*exp(5))/ln(exp(5)**2-2*x*exp(5)+x**2)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 775

Sympy [F(-2)]

Exception generated.

$$\int e^{\frac{3x^2+5x^3+2x^4}{(4+8x)\log(x^2)}} \frac{(-6x^2 - 22x^3 - 24x^4 - 8x^5 + (6x^2 + 21x^3 + 28x^4 + 12x^5)\log(x^2) + (-8 - 32x - 32x^2)\log(x^2))}{(4x^3 + 16x^4 + 16x^5)\log^2(x^2)} dx$$

= Exception raised: TypeError

input `integrate(((-32*x**2-32*x-8)*ln(x**2)**2+(12*x**5+28*x**4+21*x**3+6*x**2)*ln(x**2)-8*x**5-24*x**4-22*x**3-6*x**2)*exp((2*x**4+5*x**3+3*x**2)/(8*x+4)/ln(x**2)))/(16*x**5+16*x**4+4*x**3)/ln(x**2)**2,x)`

output `Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'`

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 947

Sympy [F(-2)]

Exception generated.

$$\int e^{9e^{\frac{2(-4x-x^2)}{6-3x+3\log(x)} + \frac{2(-4x-x^2)}{6-3x+3\log(x)}}} \frac{(-24 - 18x + 6x^2 + (-24 - 12x)\log(x))}{4 - 4x + x^2 + (4 - 2x)\log(x) + \log^2(x)} dx$$

= Exception raised: TypeError

input `integrate(((-12*x-24)*ln(x)+6*x**2-18*x-24)*exp((-x**2-4*x)/(3*ln(x)-3*x+6))**2*exp(9*exp((-x**2-4*x)/(3*ln(x)-3*x+6))**2)/(ln(x)**2+(4-2*x)*ln(x)+x**2-4*x+4),x)`

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1034

Sympy [F(-2)]

Exception generated.

$$\int \frac{7x^2 + (12 + 4x) \log^3(5x) \log(3 + x) + \log^4(5x)(-x + (-3 - x) \log(3 + x))}{147x^2 + 49x^3 + (-42x - 14x^2) \log^4(5x) + (3 + x) \log^8(5x)} dx$$

= Exception raised: TypeError

input

integrate(((((-3-x)*ln(3+x)-x)*ln(5*x)**4+(4*x+12)*ln(3+x)*ln(5*x)**3+7*x**2)/((3+x)*ln(5*x)**8+(-14*x**2-42*x)*ln(5*x)**4+49*x**3+147*x**2), x)

output

Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1123

Sympy [F(-2)]

Exception generated.

$$\int \frac{e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}}}{e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}}} (x^2 \log(x) + 2x \log^2(x) + \log^3(x)) + e^{-\frac{-5x+e^5x+(-5+e^5)\log(x)+\log\left(\frac{x}{\log(x)}\right)}{x+\log(x)}} dx$$

= Exception raised: TypeError

input

```
integrate((((1+x)*ln(x)*ln(x/ln(x))+ln(x)**3+(-1+2*x)*ln(x)**2+(x**2-x+1)*
ln(x)+x)*exp((-2*exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x))
)+x)/exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/(x+ln(x))))+(ln(x)**3
+2*x*ln(x)**2+x**2*ln(x))*exp((ln(x/ln(x)))+(exp(5)-5)*ln(x)+x*exp(5)-5*x)/
(x+ln(x))))/(ln(x)**3+2*x*ln(x)**2+x**2*ln(x))/exp((ln(x/ln(x)))+(exp(5)-5)
*ln(x)+x*exp(5)-5*x)/(x+ln(x))),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1148

Sympy [F(-2)]

Exception generated.

$$\int \frac{128 - 32x + 64x^2 - 16x^3 + 8x^4 - 2x^5 + (40 - 530x + 280x^2 - 545x^3 + 258x^4 - 128x^5 + 48x^6 - 6x^7)}{}$$

= Exception raised: TypeError

input

```
integrate(((ln(x)**3+(5*x**4+24*x**2+20)*ln(x)**2+(-4*x**5+19*x**4-16*x**3
+88*x**2-x+52)*ln(x))*ln(ln(x)**2)-2*x*ln(x)**4+(-6*x**5-32*x**3+4*x**2-49
*x)*ln(x)**3+(12*x**6-48*x**5+64*x**4-258*x**3+82*x**2-296*x+2)*ln(x)**2+(
-6*x**7+48*x**6-128*x**5+258*x**4-545*x**3+280*x**2-530*x+40)*ln(x)-2*x**5
+8*x**4-16*x**3+64*x**2-32*x+128)/(ln(x)**3+(-2*x+8)*ln(x)**2+(x**2-8*x+16)
)*ln(x)),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1161

Sympy [F(-2)]

Exception generated.

$$\int \frac{-507x^2 + 481x^3 - 152x^4 + 16x^5 + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4)}{-507x^2 + 481x^3 - 152x^4 + 16x^5 + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4) + (-234x^2 + 150x^3 - 24x^4) \log(81 - 108x + 54x^2 - 12x^3 + x^4)} dx$$

= Exception raised: TypeError

input

```
integrate(((((-3*x+9)*ln(x**4-12*x**3+54*x**2-108*x+81)+8*x**2-49*x+39)*exp
(1/(3*x*ln(x**4-12*x**3+54*x**2-108*x+81)-4*x**2+13*x))+9*x**3-27*x**2)*l
n(x**4-12*x**3+54*x**2-108*x+81)**2+(-24*x**4+150*x**3-234*x**2)*ln(x**4-1
2*x**3+54*x**2-108*x+81)+16*x**5-152*x**4+481*x**3-507*x**2)/((9*x**3-27*x
**2)*ln(x**4-12*x**3+54*x**2-108*x+81)**2+(-24*x**4+150*x**3-234*x**2)*ln(
x**4-12*x**3+54*x**2-108*x+81)+16*x**5-152*x**4+481*x**3-507*x**2),x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Poly'
and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1263

Sympy [F(-2)]

Exception generated.

$$\int \frac{(-208x - 60x^2 + 108x^3 - 36x^4 + 4x^5) \log(2x) + (-60 + 164x - 57x^2 - 15x^3 + 9x^4 - x^5) \log\left(\frac{400-1920x+1920x^2-108x^3+16x^4-x^5}{(60x - 164x^2 + 57x^3 + 15x^4 - 9x^5 + x^6) \log^2(2x)}\right)}{(60x - 164x^2 + 57x^3 + 15x^4 - 9x^5 + x^6) \log^2(2x)} dx$$

= Exception raised: TypeError

input

```
integrate((-x**5+9*x**4-15*x**3-57*x**2+164*x-60)*ln((x**8-12*x**7+30*x**
6+132*x**5-607*x**4-48*x**3+2424*x**2-1920*x+400)/(x**4-12*x**3+54*x**2-10
8*x+81))+4*x**5-36*x**4+108*x**3-60*x**2-208*x)*ln(2*x)/(x**6-9*x**5+15*
x**4+57*x**3-164*x**2+60*x)/ln(2*x)**2,x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1318

Sympy [F(-2)]

Exception generated.

$$\int \frac{5 - 5e^x + 5x - 5x^2 + (5 + 4x^2 + x^3 + e^x(-5 + 6x)) \log(x) + (-x^3 + e^x(x - x^2)) \log^2(x) + (5 + (5 - x) \log(x) - x^3 \log^2(x) + x^3 \log^3(x))}{-5x^2 \log^2(x) + x^3 \log^3(x)} dx = \text{Exception raised: TypeError}$$

input

```
integrate(((x*ln(x)**2+ln(x)*(5-x)+5)*ln(1/2*x*ln(x)-5/2)+((-x**2+x)*exp(x)-x**3)*ln(x)**2+((6*x-5)*exp(x)+x**3+4*x**2+5)*ln(x)-5*exp(x)-5*x**2+5*x+5)/(x**3*ln(x)**3-5*x**2*ln(x)**2), x)
```

output

```
Exception raised: TypeError >> '>' not supported between instances of 'Polynomial' and 'int'
```

input file name test_cases/extra_tests/364_Hebisch_4

Test file number 364

Integral number in file 1323

Sympy [F(-2)]

Exception generated.

$$\int \frac{2a(-b^3 + 2\sqrt{2}a^2bx^2)}{b^4 - a^2b^2x^2 + \sqrt{2}a^4x^4} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate(2*a*(-b**3+2*2**(1/2)*a**2*b*x**2)/(b**4-a**2*b**2*x**2+2**(1/2)*a**4*x**4), x)
```

output

```
Exception raised: PolynomialError >> 1/(_t**4 - 4*sqrt(2)*_t**2 + 8) contains an element of the set of generators.
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 1

Sympy [F(-2)]

Exception generated.

$$\int \frac{-\sqrt{3}b - 2ax + 4\sqrt{2}ax + 3b^2x + 2\sqrt{3}abx^2 - 2\sqrt{6}abx^2 + 2\sqrt{2}a^2x^3}{1 - 2\sqrt{3}bx - ax^2 + 3b^2x^2 + \sqrt{3}abx^3 + \sqrt{2}a^2x^4} dx$$

= Exception raised: PolynomialError

input

```
integrate((-3**(1/2)*b-2*a*x+4*2**(1/2)*a*x+3*b**2*x+2*3**(1/2)*a*b*x**2-2*6**(1/2)*a*b*x**2+2*2**(1/2)*a**2*x**3)/(1-2*3**(1/2)*b*x-a*x**2+3*b**2*x**2+3**(1/2)*a*b*x**3+2**(1/2)*a**2*x**4), x)
```

output

```
Exception raised: PolynomialError >> 1/(128*_t**4*a**2 - 768*_t**4*a*b**2 + 144*sqrt(2)*_t**4*a*b**2 - 432*sqrt(2)*_t**4*b**4 + 1233*_t**4*b**4 - 512*sqrt(2)*_t**3*a**2 - 128*_t**3*a**2 + 192*_t**3*a*b**2 + 1368*sqrt(2)*_t**3*a*b**2 - 12
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 3

Sympy [F(-2)]

Exception generated.

$$\int \frac{-\sqrt{3} + x + 4\sqrt{2}x + 2\sqrt{3}x^2 - 2\sqrt{6}x^2 + 2\sqrt{2}x^3}{1 - 2\sqrt{3}x + 2x^2 + \sqrt{3}x^3 + \sqrt{2}x^4} dx$$

= Exception raised: PolynomialError

input `integrate((-3**(1/2)+x+4*2**(1/2)*x+2*3**(1/2)*x**2-2*6**(1/2)*x**2+2*2**(1/2)*x**3)/(1-2*3**(1/2)*x+2*x**2+3**(1/2)*x**3+2**(1/2)*x**4),x)`

output Exception raised: PolynomialError >> 1/(-593*_t**4 + 288*sqrt(2)*_t**4 - 1360*sqrt(2)*_t**3 + 1196*_t**3 - 1044*_t**2 + 244*sqrt(2)*_t**2 - 800*_t + 584*sqrt(2)*_t - 136 + 96*sqrt(2)) contains an element of the set of generators.

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 8

Sympy [F(-2)]

Exception generated.

$$\int \frac{-1 - x + 4\sqrt{2}x + 2x^2 - 2\sqrt{2}x^2 + 2\sqrt{2}x^3}{1 - 2x + x^3 + \sqrt{2}x^4} dx = \text{Exception raised: PolynomialError}$$

input `integrate((-1-x+4*2**(1/2)*x+2*x**2-2*2**(1/2)*x**2+2*2**(1/2)*x**3)/(1-2*x+x**3+2**(1/2)*x**4),x)`

output Exception raised: PolynomialError >> 1/(9*_t**4 - 204*_t**3 + 12*sqrt(2)*_t**2 + 1204*_t**2 - 544*_t - 136*sqrt(2)*_t + 32*sqrt(2) + 72) contains an element of the set of generators.

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 9

Sympy [F(-2)]

Exception generated.

$$\int \frac{1 + bx^3}{x^4 (-\sqrt{2}a^3b + x^6)^2} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((b*x**3+1)/x**4/(-2**(1/2)*a**3*b+x**6)**2,x)
```

output

```
Exception raised: PolynomialError >> 1/(606928896*sqrt(2)*_t**6*a**45*b**15 + 151732224*sqrt(2)*_t**5*a**39*b**14 + 12644352*sqrt(2)*_t**4*a**33*b**13 - 24385536*_t**4*a**30*b**10 + 351232*sqrt(2)*_t**3*a**27*b**12 - 4064256*_t**3*a**24*
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 19

Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 - 2\sqrt{2} + x^2)^2 (-3 + 2\sqrt{2} + x^2)}{577 - 408\sqrt{2} + 328x^2 - 232\sqrt{2}x^2 + 78x^4 - 56\sqrt{2}x^4 + 8x^6 - 8\sqrt{2}x^6 + x^8} dx = \text{Exception raised: PolynomialError}$$

input

```
integrate((3-2*2**(1/2)+x**2)**2*(-3+2*2**(1/2)+x**2)/(577-408*2**(1/2)+328*x**2-232*2**(1/2)*x**2+78*x**4-56*2**(1/2)*x**4+8*x**6-8*x**6*2**(1/2)+x**8),x)
```

output

```
Exception raised: PolynomialError >> 1/(-489331912114255602061892417478047
2498117708482611714912381696*_t**4 + 3460099133069698398004476359279702930
052248019321310378430976*sqrt(2)*_t**4 - 159769239484575670917838951113184
628965915778476
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 47

Sympy [F(-2)]

Exception generated.

$$\int \frac{\sqrt{5}(-24 - 2\sqrt{21}) + \sqrt{5}(-105 + 15\sqrt{21})x^2}{-16 + (-48\sqrt{5} + 4\sqrt{105})x + (50 + 60\sqrt{21})x^2 + (-210\sqrt{5} - 30\sqrt{105})x^3 + 525x^4} dx$$

= Exception raised: PolynomialError

input

```
integrate((5**(1/2)*(-24-2*21**(1/2))+5**(1/2)*(-105+15*21**(1/2))*x**2)/(-
-16+(-48*5**(1/2)+4*105**(1/2))*x+(50+60*21**(1/2))*x**2+(-210*5**(1/2)-30
*105**(1/2))*x**3+525*x**4),x)
```

output

```
Exception raised: PolynomialError >> 1/(-11312*_t**4 + 1680*sqrt(21)*_t**4
- 3360*_t**3 + 288*sqrt(21)*_t**3 - 600*sqrt(21)*_t**2 + 2568*_t**2 - 72*
sqrt(21)*_t + 360*_t - 207 + 45*sqrt(21)) contains an element of the set o
f generators.
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 48

Sympy [F(-2)]

Exception generated.

$$\int \frac{3\sqrt{7} + 6\sqrt{11} + (-121\sqrt{105} - 98\sqrt{165})x^4}{-12\sqrt{15} + 10200x^4 - 118580\sqrt{15}x^8} dx = \text{Exception raised: PolynomialError}$$

input `integrate((3*7**(1/2)+6*11**(1/2)+(-121*105**(1/2)-98*165**(1/2))*x**4)/(-12*15**(1/2)+10200*x**4-118580*15**(1/2)*x**8), x)`

output `Exception raised: PolynomialError >> 1/(88766196443113618114494782100594040389209096064894207089484773390737449527800208107242469838639786311052427865545878613259174768870299313417544282422774969138741079283023024302083445868952121128899`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 50

Sympy [F(-2)]

Exception generated.

$$\int \frac{8\sqrt{11} - 2\sqrt{165} - 14\sqrt{15}x + (-70\sqrt{11} - 14\sqrt{165})x^2 + 770x^3 + 245\sqrt{11}x^4}{8(-30 + 8\sqrt{15}) + 8(-650 + 40\sqrt{15})x^2 + 8(3850 + 1015\sqrt{15})x^4 - 107800x^6} dx = \text{Exception raised: PolynomialError}$$

input `integrate((8*11**(1/2)-2*165**(1/2)-14*15**(1/2)*x+(-70*11**(1/2)-14*165**(1/2))*x**2+770*x**3+245*11**(1/2)*x**4)/(-240+64*15**(1/2)+8*(-650+40*15**(1/2))*x**2+8*(3850+1015*15**(1/2))*x**4-107800*x**6), x)`

output `Exception raised: PolynomialError >> 1/(8026406129722253778490365429016317865715856670515971110570953829958170994867072044833016220831731334848708825122193224499200000000000000000000000000000000*_t**48 + 2072409151354094443219300735040`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 51

Sympy [F(-2)]

Exception generated.

$$\int \frac{12(-420 + 1999\sqrt{3})x}{(-1999 + 140\sqrt{3})(-4 - 2\sqrt{3} - 6x^2 + 6\sqrt{3}x^2 - 9x^4)} dx$$

= Exception raised: PolynomialError

input

```
integrate(12*(-420+1999*3**(1/2))*x/(-1999+140*3**(1/2))/(-4-2*3**(1/2)-6*x**2+6*3**(1/2)*x**2-9*x**4),x)
```

output

```
Exception raised: PolynomialError >> 1/(-173135830797577185636502362255200
6976*_t**2 + 987143636854743804260619971714841888*sqrt(3)*_t**2 - 45428740
085141256258642586775496*_t + 27842854251208551842166254171016*sqrt(3)*_t
- 3639190287298
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 54

Sympy [F(-2)]

Exception generated.

$$\int \frac{-2(-1 - \sqrt{3}) - 8\sqrt{3}x - 4x^2}{2 - 2\sqrt{3} + (4 + 4\sqrt{3})x - 4\sqrt{3}x^2 - 8x^3 + 4x^4} dx$$

= Exception raised: PolynomialError

input

```
integrate((2+2*3**(1/2)-8*3**(1/2)*x-4*x**2)/(2-2*3**(1/2)+(4+4*3**(1/2))*
x-4*3**(1/2)*x**2-8*x**3+4*x**4),x)
```

output

```
Exception raised: PolynomialError >> 1/(192*sqrt(3)*_t**4 + 336*_t**4 - 48
0*_t**3 - 256*sqrt(3)*_t**3 + 48*sqrt(3)*_t**2 + 184*_t**2 + 8*_t + 16*sqr
t(3)*_t + 1) contains an element of the set of generators.
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 59

Sympy [F(-2)]

Exception generated.

$$\int \frac{(3 - 2\sqrt{2} + x^2)^2 (-3 + 2\sqrt{2} + x^2)}{577 - 408\sqrt{2} + 328x^2 - 232\sqrt{2}x^2 + 78x^4 - 56\sqrt{2}x^4 + 8x^6 - 8\sqrt{2}x^6 + x^8} dx$$

= Exception raised: PolynomialError

input

```
integrate((3-2*2**(1/2)+x**2)**2*(-3+2*2**(1/2)+x**2)/(577-408*2**(1/2)+32
8*x**2-232*2**(1/2)*x**2+78*x**4-56*2**(1/2)*x**4+8*x**6-8*x**6*2**(1/2)+x
**8),x)
```

output

```
Exception raised: PolynomialError >> 1/(-489331912114255602061892417478047
2498117708482611714912381696*_t**4 + 3460099133069698398004476359279702930
052248019321310378430976*sqrt(2)*_t**4 - 159769239484575670917838951113184
628965915778476
```

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 83

Sympy [F(-2)]

Exception generated.

$$\int \frac{-36 - 2\sqrt{6}x^2}{9\sqrt{3} + 3\sqrt{2}x^2 - x^4} dx = \text{Exception raised: PolynomialError}$$

input `integrate((-36-2*6**(1/2)*x**2)/(9*3**(1/2)+3*2**(1/2)*x**2-x**4),x)`

output `Exception raised: PolynomialError >> 1/(2*_t**4 - 2*sqrt(2)*_t**2 + 1) contains an element of the set of generators.`

input file name test_cases/extra_tests/367_Blake_2

Test file number 367

Integral number in file 98

CHAPTER 3

LINKS TO INDIVIDUAL TEST REPORTS

These are links to each test report. The number in square brackets to right of the link is the number of integrals in the test. The list of numbers in the curly brackets after that (if any) is the list of the integrals in that specific test which were solved by any CAS which are known not to have antiderivative. This makes it easier to find these integrals and do more investigation into them.

3.1 Tests completed

1. [0_Independent_test_suites/1_Apostol_Problems](#) [175]
2. [0_Independent_test_suites/2_Bondarenko_Problems](#) [35]
3. [0_Independent_test_suites/3_Bronstein_Problems](#) [14]
4. [0_Independent_test_suites/4_Calculus_Textbook_Problems](#) [76]
5. [0_Independent_test_suites/5_Charlwood_Problems](#) [50]
6. [0_Independent_test_suites/6_Hearn_Problems](#) [284] { **Maxima: 145.** }
7. [0_Independent_test_suites/7_Hebisch_Problems](#) [7]
8. [0_Independent_test_suites/8_Jeffrey_Problems](#) [9]
9. [0_Independent_test_suites/9_Moses_Problems](#) [113]
10. [0_Independent_test_suites/10_Stewart_Problems](#) [376]
11. [0_Independent_test_suites/11_Timofeev_Problems](#) [705]
12. [0_Independent_test_suites/12_Welz_Problems](#) [116]

13. 0_Independent_test_suites/13_Wester_Problems [8]
14. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/14_1.1.1.1 [111]
15. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/15_1.1.1.2a [832]
16. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/16_1.1.1.2b [299]
17. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/17_1.1.1.2c [802]
18. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/18_1.1.1.3a [352]
19. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/19_1.1.1.3b1 [354]
20. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/20_1.1.1.3b2 [626]
21. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/21_1.1.1.3c [264]
22. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/22_1.1.1.3d [1837]
23. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/23_1.1.1.4a [239]
24. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/24_1.1.1.4b [158]
25. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/25_1.1.1.5 [30]
26. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/26_1.1.1.6 [192]
27. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/27_1.1.1.7 [100]
28. 1_Algebraic_functions/1.1_Binomial/1.1.1_Linear_binomial/28_1.1.1.8 [43]

29. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/29_1.1
.2.1 [136]
30. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/30_1.1
.2.2 [1304]
31. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/31_1.1
.2.3 [564]
32. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/32_1.1
.2.4 [1663]
33. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/33_1.1
.2.5 [571]
34. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/34_1.1
.2.6 [396]
35. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/35_1.1
.2.7 [151]
36. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/36_1.1
.2.8 [270]
37. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/37_1.1
.2.9 [57]
38. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/38_1.1
.2.11 [48]
39. 1_Algebraic_functions/1.1_Binomial/1.1.2_Quadratic_binomial/39_1.1
.2.12 [18]
40. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/
40_1.1.3.1_a [41]
41. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/
41_1.1.3.1_b [52]
42. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.1/
42_1.1.3.1_c [197]
43. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
43_1.1.3.2_a [456]

44. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
44_1.1.3.2_b [727]
45. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
45_1.1.3.2_c [658]
46. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
46_1.1.3.2_d [573]
47. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
47_1.1.3.2_e [701]
48. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
48_1.1.3.2_f [132]
49. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.2/
49_1.1.3.2_g [69]
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 66. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/1.1.3.8/
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 69. 1_Algebraic_functions/1.1_Binomial/1.1.3_General_binomial/69_1.1.3
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 71. 1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial
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 72. 1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial
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 73. 1_Algebraic_functions/1.1_Binomial/1.1.4_Linear_quadratic_binomial
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 - 168. 3_Logarithms/168_3_Logarithm_functions [314]
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 - 170. 3_Logarithms/170_3.2 [454] { **Mathematica: 166, 167, 168, 170, 322, 323, 404, 405, 407, 408, 409, 410, 411, 412, 414, 415, 416, 417, 442, 443.** }
 - 171. 3_Logarithms/171_3.3 [255] { **Mathematica: 144, 150, 151, 152, 154, 155, 226. Maple: 227.** }
 - 172. 3_Logarithms/172_3.4 [314]
 - 173. 3_Logarithms/173_3.5 [261]
 - 174. 3_Logarithms/174_3.6 [108]
 - 175. 3_Logarithms/175_3.7 [566]
 - 176. 3_Logarithms/176_3.8 [728] { **Mathematica: 98, 99, 100, 101, 158, 159, 277, 298, 299, 485, 486, 487, 488, 528, 530, 531.** }

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263. [5_Inverse_trig_functions/5.1_Inverse_sine/263_5.1.1](#) [15]
264. [5_Inverse_trig_functions/5.1_Inverse_sine/264_5.1.2](#) [191] {
 Mathematica: 190, 191. }
265. [5_Inverse_trig_functions/5.1_Inverse_sine/265_5.1.3](#) [199]
266. [5_Inverse_trig_functions/5.1_Inverse_sine/266_5.1.4](#) [501]
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268. [5_Inverse_trig_functions/5.1_Inverse_sine/268_5.1.6](#) [30]
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270. [5_Inverse_trig_functions/5.2_Inverse_cosine/270_5.2.1](#) [15]
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- 278. [5_Inverse_trig_functions/5.3_Inverse_tangent/278_5.3.3](#) [31]
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- 280. [5_Inverse_trig_functions/5.3_Inverse_tangent/280_5.3.5](#) [71] {
Mathematica: 65, 66, 70, 71. }
- 281. [5_Inverse_trig_functions/5.4_Inverse_cotangent/281_5.4](#) [86]
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- 284. [5_Inverse_trig_functions/5.4_Inverse_cotangent/284_5.4.4](#) [37]
- 285. [5_Inverse_trig_functions/5.4_Inverse_cotangent/285_5.4.5](#) [53] {
Mathematica: 47, 48, 52, 53. }
- 286. [5_Inverse_trig_functions/5.5_Inverse_secant/286_5.5](#) [50]
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- 288. [5_Inverse_trig_functions/5.6_Inverse_cosecant/288_5.6](#) [49]
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- 293. [6_Hyperbolic_functions/6.1_Hyperbolic_sine/293_6.1.1](#) [502]
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- 298. [6_Hyperbolic_functions/6.1_Hyperbolic_sine/298_6.1.7.2](#) [489]
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- 300. [6_Hyperbolic_functions/6.2_Hyperbolic_cosine/300_6.2.2](#) [111]
- 301. [6_Hyperbolic_functions/6.2_Hyperbolic_cosine/301_6.2.3](#) [68]

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- 304. [6_Hyperbolic_functions/6.2_Hyperbolic_cosine/304_6.2.7.1](#) [50]
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- 306. [6_Hyperbolic_functions/6.3_Hyperbolic_tangent/306_6.3.1](#) [77]
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 Mathematica: 74, 76, 77, 79. Fracas: 74, 76, 77, 79. Mupad: 76, 77, 79.
}
- 309. [6_Hyperbolic_functions/6.4_Hyperbolic_cotangent/309_6.4.1](#) [61]
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328. `7_Inverse_hyperbolic_functions/7.1_Inverse_hyperbolic_sine/328_7.1`
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331. `7_Inverse_hyperbolic_functions/7.2_Inverse_hyperbolic_cosine/331_7`
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- 341. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/341_7.4 [179]
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- 343. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/343_7.4.3 [1]
- 344. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/344_7.4.4 [27]
- 345. 7_Inverse_hyperbolic_functions/7.4_Inverse_hyperbolic_cotangent/345_7.4.5 [50]
- 346. 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/346_7.5 [34]
- 347. 7_Inverse_hyperbolic_functions/7.5_Inverse_hyperbolic_secant/347_7.5.1 [189]
- 348. 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/348_7.6 [28]
- 349. 7_Inverse_hyperbolic_functions/7.6_Inverse_hyperbolic_cosecant/349_7.6.1 [179]
- 350. 8_Special_functions/350_8.1 [311]
- 351. 8_Special_functions/351_8.2 [218]
- 352. 8_Special_functions/352_8.3 [74] { **Fricas: 13. Mupad: 72, 73, 74. }**
- 353. 8_Special_functions/353_8.4 [136] { **Mathematica: 115. Fricas: 16. }**
- 354. 8_Special_functions/354_8.5 [136]
- 355. 8_Special_functions/355_8.6 [233] { **Mupad: 106, 141, 149, 157, 169, 170, 171, 172, 182, 183, 184, 185. }**
- 356. 8_Special_functions/356_8.7 [14]
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CHAPTER 4

LISTING OF INTEGRALS SOLVED BY CAS WHICH HAS NO KNOWN ANTIDERIVATIVES

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4.2	Test file Number [106]	9428
4.3	Test file Number [170]	9428
4.4	Test file Number [171]	9438
4.5	Test file Number [176]	9443
4.6	Test file Number [189]	9458
4.7	Test file Number [264]	9681
4.8	Test file Number [280]	9682
4.9	Test file Number [285]	9684
4.10	Test file Number [308]	9687
4.11	Test file Number [328]	9767
4.12	Test file Number [352]	9769
4.13	Test file Number [353]	9771
4.14	Test file Number [355]	9772

4.1 Test file Number [6]

Maxima

Integral number [145]

$$\int x \cos(k \csc(x)) \cot(x) \csc(x) dx$$

[C] time = 0.04552 (sec), size = 240 ,normalized size = 21.82

$$\left(x e^{\left(\frac{4 k \cos(2 x) \cos(x)}{\cos(2 x)^2 + \sin(2 x)^2 - 2 \cos(2 x) + 1} + \frac{4 k \sin(2 x) \sin(x)}{\cos(2 x)^2 + \sin(2 x)^2 - 2 \cos(2 x) + 1} \right)} + x e^{\left(\frac{4 k \cos(x)}{\cos(2 x)^2 + \sin(2 x)^2 - 2 \cos(2 x) + 1} \right)} \right) e^{\left(- \frac{2 k \cos(2 x) \cos(x)}{\cos(2 x)^2 + \sin(2 x)^2 - 2 \cos(2 x) + 1} \right)}$$

2 k

[In] integrate(x*cos(x)*cos(k/sin(x))/sin(x)^2,x, algorithm="maxima")

[Out]

$$\begin{aligned} & -1/2*(x*e^{(4*k*\cos(2*x)*\cos(x)/(\cos(2*x)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1)) +} \\ & 4*k*\sin(2*x)*\sin(x)/(\cos(2*x)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1)) + x*e^{(4*k} \\ & *\cos(x)/(\cos(2*x)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1)))*e^{(-2*k*\cos(2*x)*\cos(x} \\ &)/(\cos(2*x)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1) - 2*k*\sin(2*x)*\sin(x)/(\cos(2*x} \\ &)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1) - 2*k*\cos(x)/(\cos(2*x)^2 + \sin(2*x)^2 -} \\ & 2*\cos(2*x) + 1))*\sin(2*(k*\cos(x)*\sin(2*x) - k*\cos(2*x)*\sin(x) + k*\sin(x))/} \\ & (\cos(2*x)^2 + \sin(2*x)^2 - 2*\cos(2*x) + 1))/k \end{aligned}$$

4.2 Test file Number [106]

4.3 Test file Number [170]

Mathematica

Integral number [166]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex} dx$$

[B] time = 0.230572 (sec), size = 72 ,normalized size = 3.13

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(1, 1+m, 1+m; 2+m, 2+m; -\frac{ex}{d}\right) + (1+m) \operatorname{Hypergeometric2F1}\left(1, 1+m, 2+m, -\frac{ex}{d}\right) \right)}{d(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x),x]

[Out]

$$\frac{(x*(f*x)^m*(-(b*n*\operatorname{HypergeometricPFQ}[\{1, 1+m, 1+m\}, \{2+m, 2+m\}, -(e*x)/d]) + (1+m)*\operatorname{Hypergeometric2F1}[1, 1+m, 2+m, -(e*x)/d])*(a + b*\operatorname{Log}[c*x^n]))}{d*(1+m)^2}$$

Integral number [167]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex)^2} dx$$

[B] time = 0.210632 (sec), size = 72 ,normalized size = 3.13

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(2, 1+m, 1+m; 2+m, 2+m; -\frac{ex}{d}\right) + (1+m) \operatorname{Hypergeometric2F1}\left(2, 1+m, 2+m, -\frac{ex}{d}\right) \right)}{d^2(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x)^2,x]

[Out]

$$\frac{(x*(f*x)^m*(-(b*n*\operatorname{HypergeometricPFQ}[\{2, 1+m, 1+m\}, \{2+m, 2+m\}, -(e*x)/d]) + (1+m)*\operatorname{Hypergeometric2F1}[2, 1+m, 2+m, -(e*x)/d])*(a + b*\operatorname{Log}[c*x^n]))}{d^2*(1+m)^2}$$

Integral number [168]

$$\int x(a + bx)^m \log(cx^n) dx$$

[B] time = 0.280476 (sec), size = 173 ,normalized size = 11.53

$$\frac{(a + bx)^m \left(1 + \frac{bx}{a} \right)^{-m} \left(-n \left(2abx \left(1 + \frac{bx}{a} \right)^m + b^2 x^2 \left(1 + \frac{bx}{a} \right)^m + a^2 \left(-1 + \left(1 + \frac{bx}{a} \right)^m \right) \right) + ab(2+m)nx {}_3F_2\left(1, 1+m, 1+m; 2+m, 2+m; -\frac{bx}{a}\right) \right)}{b^2(1+m)}$$

[In] Integrate[x*(a + b*x)^m*Log[c*x^n],x]

[Out]

((a + b*x)^m*(-(n*(2*a*b*x*(1 + (b*x)/a)^m + b^2*x^2*(1 + (b*x)/a)^m + a^2*(-1 + (1 + (b*x)/a)^m))) + a*b*(2 + m)*n*x*HypergeometricPFQ[{1, 1, -1 - m}, {2, 2}, -(b*x)/a] + (a*b*m*x*(1 + (b*x)/a)^m + b^2*(1 + m)*x^2*(1 + (b*x)/a)^m - a^2*(-1 + (1 + (b*x)/a)^m)*Log[c*x^n]))/(b^2*(1 + m)*(2 + m)*(1 + (b*x)/a)^m)

Integral number [170]

$$\int \frac{(a + bx)^m \log(cx^n)}{x} dx$$

[B] time = 0.0713418 (sec), size = 89 ,normalized size = 5.24

$$\frac{\left(1 + \frac{a}{bx}\right)^{-m} (a + bx)^m \left(-n {}_3F_2\left(-m, -m, -m; 1 - m, 1 - m; -\frac{a}{bx}\right) + m \operatorname{Hypergeometric2F1}\left(-m, -m, 1 - m, -\frac{a}{bx}\right)\right)}{m^2}$$

[In] Integrate[((a + b*x)^m*Log[c*x^n])/x,x]

[Out]

((a + b*x)^m*(-(n*HypergeometricPFQ[{-m, -m, -m}, {1 - m, 1 - m}, -(a/(b*x))] + m*Hypergeometric2F1[-m, -m, 1 - m, -(a/(b*x))]*Log[c*x^n]))/(m^2*(1 + a/(b*x))^m)

Integral number [322]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex^2} dx$$

[B] time = 1.21182 (sec), size = 108 ,normalized size = 4.32

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(1, \frac{1}{2} + \frac{m}{2}, \frac{1}{2} + \frac{m}{2}; \frac{3}{2} + \frac{m}{2}, \frac{3}{2} + \frac{m}{2}; -\frac{ex^2}{d}\right) + (1 + m) \operatorname{Hypergeometric2F1}\left(1, \frac{1+m}{2}, \frac{3+m}{2}, -\frac{ex^2}{d}\right)\right)}{d(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^2),x]

[Out]

```
(x*(f*x)^m*(-(b*n*HypergeometricPFQ[{1, 1/2 + m/2, 1/2 + m/2}, {3/2 + m/2,
3/2 + m/2}, -(e*x^2)/d])) + (1 + m)*Hypergeometric2F1[1, (1 + m)/2, (3 + m
)/2, -(e*x^2)/d]*(a + b*Log[c*x^n]))/(d*(1 + m)^2)
```

Integral number [323]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex^2)^2} dx$$

[B] time = 0.247002 (sec), size = 108 ,normalized size = 4.32

$$\frac{x(fx)^m \left(-bn {}_3F_2 \left(2, \frac{1}{2} + \frac{m}{2}, \frac{1}{2} + \frac{m}{2}; \frac{3}{2} + \frac{m}{2}, \frac{3}{2} + \frac{m}{2}; -\frac{ex^2}{d} \right) + (1 + m) \text{Hypergeometric2F1} \left(2, \frac{1+m}{2}, \frac{3+m}{2}, -\frac{ex^2}{d} \right) \right)}{d^2(1 + m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^2)^2,x]

[Out]

```
(x*(f*x)^m*(-(b*n*HypergeometricPFQ[{2, 1/2 + m/2, 1/2 + m/2}, {3/2 + m/2,
3/2 + m/2}, -(e*x^2)/d])) + (1 + m)*Hypergeometric2F1[2, (1 + m)/2, (3 + m
)/2, -(e*x^2)/d]*(a + b*Log[c*x^n]))/(d^2*(1 + m)^2)
```

Integral number [404]

$$\int \frac{x^3(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.166816 (sec), size = 87 ,normalized size = 3.78

$$\frac{x^4 \left(-bn {}_3F_2 \left(1, \frac{4}{r}, \frac{4}{r}; 1 + \frac{4}{r}, 1 + \frac{4}{r}; -\frac{ex^r}{d} \right) + 4 \text{Hypergeometric2F1} \left(1, \frac{4}{r}, \frac{4+r}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n)) \right)}{16d}$$

[In] Integrate[(x^3*(a + b*Log[c*x^n]))/(d + e*x^r),x]

[Out]

```
(x^4*(-(b*n*HypergeometricPFQ[{1, 4/r, 4/r}, {1 + 4/r, 1 + 4/r}, -(e*x^r)/
d])) + 4*Hypergeometric2F1[1, 4/r, (4 + r)/r, -(e*x^r)/d]*(a + b*Log[c*x^
```

n]))/((16*d)

Integral number [405]

$$\int \frac{x(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.151718 (sec), size = 87 ,normalized size = 4.14

$$\frac{x^2 \left(-bn {}_3F_2 \left(1, \frac{2}{r}, \frac{2}{r}; 1 + \frac{2}{r}, 1 + \frac{2}{r}; -\frac{ex^r}{d} \right) + 2 \text{Hypergeometric2F1} \left(1, \frac{2}{r}, \frac{2+r}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n)) \right)}{4d}$$

[In] Integrate[(x*(a + b*Log[c*x^n]))/(d + e*x^r),x]

[Out]

(x^2*(-(b*n*HypergeometricPFQ[{1, 2/r, 2/r}, {1 + 2/r, 1 + 2/r}, -(e*x^r)/d]) + 2*Hypergeometric2F1[1, 2/r, (2 + r)/r, -(e*x^r)/d])*(a + b*Log[c*x^n]))/(4*d)

Integral number [407]

$$\int \frac{a + b \log(cx^n)}{x^3 (d + ex^r)} dx$$

[B] time = 0.174706 (sec), size = 86 ,normalized size = 3.74

$$\frac{bn {}_3F_2 \left(1, -\frac{2}{r}, -\frac{2}{r}; 1 - \frac{2}{r}, 1 - \frac{2}{r}; -\frac{ex^r}{d} \right) + 2 \text{Hypergeometric2F1} \left(1, -\frac{2}{r}, \frac{-2+r}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n))}{4dx^2}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^3*(d + e*x^r)),x]

[Out]

-1/4*(b*n*HypergeometricPFQ[{1, -2/r, -2/r}, {1 - 2/r, 1 - 2/r}, -(e*x^r)/d]) + 2*Hypergeometric2F1[1, -2/r, (-2 + r)/r, -(e*x^r)/d])*(a + b*Log[c*x^n]))/(d*x^2)

Integral number [408]

$$\int \frac{x^2(a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.165297 (sec), size = 87 ,normalized size = 3.78

$$\frac{x^3 \left(-bn {}_3F_2 \left(1, \frac{3}{r}, \frac{3}{r}; 1 + \frac{3}{r}, 1 + \frac{3}{r}; -\frac{ex^r}{d} \right) + 3 \operatorname{Hypergeometric2F1} \left(1, \frac{3}{r}, \frac{3+r}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n)) \right)}{9d}$$

[In] Integrate[(x^2*(a + b*Log[c*x^n]))/(d + e*x^r),x]

[Out]

$$(x^3 * (- (b * n * \operatorname{HypergeometricPFQ}[\{1, 3/r, 3/r\}, \{1 + 3/r, 1 + 3/r\}, -((e * x^r)/d)]) + 3 * \operatorname{Hypergeometric2F1}[1, 3/r, (3 + r)/r, -((e * x^r)/d)] * (a + b * \operatorname{Log}[c * x^n]))) / (9 * d)$$

Integral number [409]

$$\int \frac{a + b \log(cx^n)}{d + ex^r} dx$$

[B] time = 0.11918 (sec), size = 69 ,normalized size = 3.45

$$\frac{x \left(-bn {}_3F_2 \left(1, \frac{1}{r}, \frac{1}{r}; 1 + \frac{1}{r}, 1 + \frac{1}{r}; -\frac{ex^r}{d} \right) + \operatorname{Hypergeometric2F1} \left(1, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n)) \right)}{d}$$

[In] Integrate[(a + b*Log[c*x^n))/(d + e*x^r),x]

[Out]

$$(x * (- (b * n * \operatorname{HypergeometricPFQ}[\{1, r^{(-1)}, r^{(-1)}\}, \{1 + r^{(-1)}, 1 + r^{(-1)}\}, -((e * x^r)/d)]) + \operatorname{Hypergeometric2F1}[1, r^{(-1)}, 1 + r^{(-1)}, -((e * x^r)/d)] * (a + b * \operatorname{Log}[c * x^n]))) / d$$

Integral number [410]

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^r)} dx$$

[B] time = 0.154664 (sec), size = 83 ,normalized size = 3.61

$$\frac{bn {}_3F_2 \left(1, -\frac{1}{r}, -\frac{1}{r}; 1 - \frac{1}{r}, 1 - \frac{1}{r}; -\frac{ex^r}{d} \right) + \operatorname{Hypergeometric2F1} \left(1, -\frac{1}{r}, \frac{-1+r}{r}, -\frac{ex^r}{d} \right) (a + b \log(cx^n))}{dx}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^2*(d + e*x^r)),x]

[Out]

-((b*n*HypergeometricPFQ[{1, -r^(-1), -r^(-1)}, {1 - r^(-1), 1 - r^(-1)}], -((e*x^r)/d)] + Hypergeometric2F1[1, -r^(-1), (-1 + r)/r, -((e*x^r)/d)]*(a + b*Log[c*x^n]))/(d*x)

Integral number [411]

$$\int \frac{x^3(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.296299 (sec), size = 140 ,normalized size = 6.09

$$\frac{x^4(-bn(-4 + r)(d + ex^r) {}_3F_2\left(1, \frac{4}{r}, \frac{4}{r}; 1 + \frac{4}{r}, 1 + \frac{4}{r}; -\frac{ex^r}{d}\right) + 16d(a + b \log(cx^n)) + 4(d + ex^r) \text{Hypergeometric}}{16d^2r(d + ex^r)}$$

[In] Integrate[(x^3*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

[Out]

(x^4*(-(b*n*(-4 + r)*(d + e*x^r)*HypergeometricPFQ[{1, 4/r, 4/r}, {1 + 4/r, 1 + 4/r}, -((e*x^r)/d)]) + 16*d*(a + b*Log[c*x^n]) + 4*(d + e*x^r)*Hypergeometric2F1[1, 4/r, (4 + r)/r, -((e*x^r)/d)]*(-(b*n) + a*(-4 + r) + b*(-4 + r)*Log[c*x^n])))/(16*d^2*r*(d + e*x^r))

Integral number [412]

$$\int \frac{x(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.300438 (sec), size = 140 ,normalized size = 6.67

$$\frac{x^2(-bn(-2 + r)(d + ex^r) {}_3F_2\left(1, \frac{2}{r}, \frac{2}{r}; 1 + \frac{2}{r}, 1 + \frac{2}{r}; -\frac{ex^r}{d}\right) + 4d(a + b \log(cx^n)) + 2(d + ex^r) \text{Hypergeometric}}{4d^2r(d + ex^r)}$$

[In] Integrate[(x*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

[Out]

$$(x^2*(-(b*n*(-2+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, 2/r, 2/r\}, \{1+2/r, 1+2/r\}, -(e*x^r)/d]) + 4*d*(a+b*\text{Log}[c*x^n]) + 2*(d+e*x^r)*\text{Hypergeometric2F1}[1, 2/r, (2+r)/r, -(e*x^r)/d]*(-(b*n) + a*(-2+r) + b*(-2+r)*\text{Log}[c*x^n]))) / (4*d^2*r*(d+e*x^r))$$

Integral number [414]

$$\int \frac{a + b \log(cx^n)}{x^3 (d + ex^r)^2} dx$$

[B] time = 0.295296 (sec), size = 139 ,normalized size = 6.04

$$\frac{bn(2+r)(d+ex^r) {}_3F_2\left(1, -\frac{2}{r}, -\frac{2}{r}; 1-\frac{2}{r}, 1-\frac{2}{r}; -\frac{ex^r}{d}\right) - 4d(a+b \log(cx^n)) + 2(d+ex^r) \text{Hypergeometric2F1}\left[1, 2/r, (2+r)/r, -(e*x^r)/d\right]}{4d^2rx^2(d+ex^r)}$$

[In] Integrate[(a + b*Log[c*x^n])/(x^3*(d + e*x^r)^2),x]

[Out]

$$-1/4*(b*n*(2+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, -2/r, -2/r\}, \{1-2/r, 1-2/r\}, -(e*x^r)/d] - 4*d*(a+b*\text{Log}[c*x^n]) + 2*(d+e*x^r)*\text{Hypergeometric2F1}[1, -2/r, (-2+r)/r, -(e*x^r)/d]*(-(b*n) + a*(2+r) + b*(2+r)*\text{Log}[c*x^n])) / (d^2*r*x^2*(d+e*x^r))$$

Integral number [415]

$$\int \frac{x^2(a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.304075 (sec), size = 140 ,normalized size = 6.09

$$\frac{x^3(-bn(-3+r)(d+ex^r) {}_3F_2\left(1, \frac{3}{r}, \frac{3}{r}; 1+\frac{3}{r}, 1+\frac{3}{r}; -\frac{ex^r}{d}\right) + 9d(a+b \log(cx^n)) + 3(d+ex^r) \text{Hypergeometric2F1}\left[1, 3/r, 3/r, -(e*x^r)/d\right])}{9d^2r(d+ex^r)}$$

[In] Integrate[(x^2*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

[Out]

$$(x^3*(-(b*n*(-3+r)*(d+e*x^r)*\text{HypergeometricPFQ}[\{1, 3/r, 3/r\}, \{1+3/r, 1+3/r\}, -(e*x^r)/d]) + 9*d*(a+b*\text{Log}[c*x^n]) + 3*(d+e*x^r)*\text{Hypergeometric2F1}[1, 3/r, 3/r, -(e*x^r)/d]*(-(b*n) + a*(3+r) + b*(3+r)*\text{Log}[c*x^n]))) / (9*d^2*r*(d+e*x^r))$$

metric2F1[1, 3/r, (3 + r)/r, -((e*x^r)/d)]*(-(b*n) + a*(-3 + r) + b*(-3 + r)*Log[c*x^n])))/(9*d^2*r*(d + e*x^r))

Integral number [416]

$$\int \frac{a + b \log(cx^n)}{(d + ex^r)^2} dx$$

[B] time = 2.98149 (sec), size = 161 ,normalized size = 8.05

$x(adr \operatorname{Hypergeometric2F1}\left(2, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d}\right) + aex^r \operatorname{Hypergeometric2F1}\left(2, \frac{1}{r}, 1 + \frac{1}{r}, -\frac{ex^r}{d}\right) - bn(-1 + r))$

[In] Integrate[(a + b*Log[c*x^n])/(d + e*x^r)^2,x]

[Out]

(x*(a*d*r*Hypergeometric2F1[2, r^(-1), 1 + r^(-1), -((e*x^r)/d)] + a*e*r*x^r*Hypergeometric2F1[2, r^(-1), 1 + r^(-1), -((e*x^r)/d)] - b*n*(-1 + r)*(d + e*x^r)*HypergeometricPFQ[{1, r^(-1), r^(-1)}, {1 + r^(-1), 1 + r^(-1)}, -((e*x^r)/d)] + b*d*Log[c*x^n] - b*(d + e*x^r)*Hypergeometric2F1[1, r^(-1), 1 + r^(-1), -((e*x^r)/d)]*(n - (-1 + r)*Log[c*x^n])))/(d^2*r*(d + e*x^r))

Integral number [417]

$$\int \frac{a + b \log(cx^n)}{x^2 (d + ex^r)^2} dx$$

[B] time = 0.271186 (sec), size = 135 ,normalized size = 5.87

$\frac{-bn(1 + r)(d + ex^r) {}_3F_2\left(1, -\frac{1}{r}, -\frac{1}{r}; 1 - \frac{1}{r}, 1 - \frac{1}{r}; -\frac{ex^r}{d}\right) + d(a + b \log(cx^n)) - (d + ex^r) \operatorname{Hypergeometric2F1}\left(1, -r^(-1), (-1 + r)/r, -((e*x^r)/d)\right)}{d^2rx(d + ex^r)}$

[In] Integrate[(a + b*Log[c*x^n])/(x^2*(d + e*x^r)^2),x]

[Out]

(-(b*n*(1 + r)*(d + e*x^r)*HypergeometricPFQ[{1, -r^(-1), -r^(-1)}, {1 - r^(-1), 1 - r^(-1)}, -((e*x^r)/d)]) + d*(a + b*Log[c*x^n]) - (d + e*x^r)*Hypergeometric2F1[1, -r^(-1), (-1 + r)/r, -((e*x^r)/d)]*(a - b*n + a*r + b*(1 + r)))/d^2rx(d + ex^r)

$$r) \cdot \text{Log}[c \cdot x^n]) / (d^2 \cdot r \cdot x \cdot (d + e \cdot x^r))$$

Integral number [442]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{d + ex^r} dx$$

[B] time = 0.297195 (sec), size = 111 ,normalized size = 4.44

$$\frac{x(fx)^m \left(-bn {}_3F_2\left(1, \frac{1}{r} + \frac{m}{r}, \frac{1}{r} + \frac{m}{r}; 1 + \frac{1}{r} + \frac{m}{r}, 1 + \frac{1}{r} + \frac{m}{r}; -\frac{ex^r}{d}\right) + (1+m) \text{Hypergeometric2F1}\left(1, \frac{1+m}{r}, \frac{1+m+r}{r}, -\frac{ex^r}{d}\right) \right)}{d(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^r),x]

[Out]

$$(x \cdot (f \cdot x)^m \cdot (-b \cdot n \cdot \text{HypergeometricPFQ}[\{1, r^{(-1)} + m/r, r^{(-1)} + m/r\}, \{1 + r^{(-1)} + m/r, 1 + r^{(-1)} + m/r\}, -(e \cdot x^r)/d]) + (1 + m) \cdot \text{Hypergeometric2F1}[1, (1 + m)/r, (1 + m + r)/r, -(e \cdot x^r)/d]) \cdot (a + b \cdot \text{Log}[c \cdot x^n])) / (d \cdot (1 + m)^2)$$

Integral number [443]

$$\int \frac{(fx)^m (a + b \log(cx^n))}{(d + ex^r)^2} dx$$

[B] time = 0.539752 (sec), size = 177 ,normalized size = 7.08

$$\frac{x(fx)^m \left(bn(1+m-r)(d+ex^r) {}_3F_2\left(1, \frac{1}{r} + \frac{m}{r}, \frac{1}{r} + \frac{m}{r}; 1 + \frac{1}{r} + \frac{m}{r}, 1 + \frac{1}{r} + \frac{m}{r}; -\frac{ex^r}{d}\right) - (1+m) \left(-d(1+m-r) \text{Hypergeometric2F1}\left(1, \frac{1+m}{r}, \frac{1+m+r}{r}, -\frac{ex^r}{d}\right) \right) \right)}{d^2(1+m)^2}$$

[In] Integrate[((f*x)^m*(a + b*Log[c*x^n]))/(d + e*x^r)^2,x]

[Out]

$$(x \cdot (f \cdot x)^m \cdot (b \cdot n \cdot (1 + m - r) \cdot (d + e \cdot x^r) \cdot \text{HypergeometricPFQ}[\{1, r^{(-1)} + m/r, r^{(-1)} + m/r\}, \{1 + r^{(-1)} + m/r, 1 + r^{(-1)} + m/r\}, -(e \cdot x^r)/d] - (1 + m) \cdot (-d \cdot (1 + m) \cdot (a + b \cdot \text{Log}[c \cdot x^n])) + (d + e \cdot x^r) \cdot \text{Hypergeometric2F1}[1, (1 + m)/r, (1 + m + r)/r, -(e \cdot x^r)/d]) \cdot (b \cdot n + a \cdot (1 + m - r) + b \cdot (1 + m - r) \cdot \text{Log}[c \cdot x^n])) / (d^2 \cdot (1 + m)^2 \cdot r \cdot (d + e \cdot x^r))$$

4.4 Test file Number [171]

Mathematica

Integral number [144]

$$\int (gx)^q (a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.594432 (sec), size = 304 ,normalized size = 10.86

$$x(gx)^q \left(-akm + 2bkmn - akmq - bkmn {}_3F_2\left(1, \frac{1}{m} + \frac{q}{m}, \frac{1}{m} + \frac{q}{m}; 1 + \frac{1}{m} + \frac{q}{m}, 1 + \frac{1}{m} + \frac{q}{m}; -\frac{fx^m}{e}\right) - bkm \log \right)$$

[In] Integrate[(g*x)^q*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

[Out]

(x*(g*x)^q*(-(a*k*m) + 2*b*k*m*n - a*k*m*q - b*k*m*n*HypergeometricPFQ[{1, m^(-1) + q/m, m^(-1) + q/m}, {1 + m^(-1) + q/m, 1 + m^(-1) + q/m}, -(f*x^m)/e]) - b*k*m*Log[c*x^n] - b*k*m*q*Log[c*x^n] + k*m*Hypergeometric2F1[1, (1 + q)/m, (1 + m + q)/m, -(f*x^m)/e])*(a - b*n + a*q + b*(1 + q)*Log[c*x^n]) + a*Log[d*(e + f*x^m)^k] - b*n*Log[d*(e + f*x^m)^k] + 2*a*q*Log[d*(e + f*x^m)^k] - b*n*q*Log[d*(e + f*x^m)^k] + a*q^2*Log[d*(e + f*x^m)^k] + b*Log[c*x^n]*Log[d*(e + f*x^m)^k] + 2*b*q*Log[c*x^n]*Log[d*(e + f*x^m)^k] + b*q^2*Log[c*x^n]*Log[d*(e + f*x^m)^k))/(1 + q)^3

Integral number [150]

$$\int x^2(a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.297521 (sec), size = 292 ,normalized size = 11.23

$$x^3 \left(-6bekmn - 2bekm^2n + 9afkma^m \text{Hypergeometric2F1} \left(1, \frac{3+m}{m}, 2 + \frac{3}{m}, -\frac{fx^m}{e} \right) + bek m(3 + m) n {}_3F_2 \right)$$

[In] Integrate[x^2*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

[Out]

$$-1/27*(x^3*(-6*b*e*k*m*n - 2*b*e*k*m^2*n + 9*a*f*k*m*x^m*Hypergeometric2F1[1, (3 + m)/m, 2 + 3/m, -((f*x^m)/e)] + b*e*k*m*(3 + m)*n*HypergeometricPFQ[{1, 3/m, 3/m}, {1 + 3/m, 1 + 3/m}, -((f*x^m)/e)] + b*e*k*m*(3 + m)*Hypergeometric2F1[1, 3/m, (3 + m)/m, -((f*x^m)/e)]*(n - 3*Log[c*x^n]) + 9*b*e*k*m*Log[c*x^n] + 3*b*e*k*m^2*Log[c*x^n] - 27*a*e*Log[d*(e + f*x^m)^k] - 9*a*e*m*Log[d*(e + f*x^m)^k] + 9*b*e*n*Log[d*(e + f*x^m)^k] + 3*b*e*m*n*Log[d*(e + f*x^m)^k] - 27*b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - 9*b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k]))/(e*(3 + m))$$

Integral number [151]

$$\int x(a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.270761 (sec), size = 292 ,normalized size = 12.17

$$x^2 \left(-4b e k m n - 2b e k m^2 n + 4a f k m x^m \operatorname{Hypergeometric2F1} \left(1, \frac{2+m}{m}, 2 + \frac{2}{m}, -\frac{f x^m}{e} \right) + b e k m (2 + m) n {}_3F_2 \right)$$

[In] Integrate[x*(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

[Out]

$$-1/8*(x^2*(-4*b*e*k*m*n - 2*b*e*k*m^2*n + 4*a*f*k*m*x^m*Hypergeometric2F1[1, (2 + m)/m, 2 + 2/m, -((f*x^m)/e)] + b*e*k*m*(2 + m)*n*HypergeometricPFQ[{1, 2/m, 2/m}, {1 + 2/m, 1 + 2/m}, -((f*x^m)/e)] + b*e*k*m*(2 + m)*Hypergeometric2F1[1, 2/m, (2 + m)/m, -((f*x^m)/e)]*(n - 2*Log[c*x^n]) + 4*b*e*k*m*Log[c*x^n] + 2*b*e*k*m^2*Log[c*x^n] - 8*a*e*Log[d*(e + f*x^m)^k] - 4*a*e*m*Log[d*(e + f*x^m)^k] + 4*b*e*n*Log[d*(e + f*x^m)^k] + 2*b*e*m*n*Log[d*(e + f*x^m)^k] - 8*b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - 4*b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k]))/(e*(2 + m))$$

Integral number [152]

$$\int (a + b \log(cx^n)) \log(d(e + fx^m)^k) dx$$

[B] time = 0.43239 (sec), size = 165 ,normalized size = 7.17

$$b k m n x - k m x (a + b(-n \log(x) + \log(cx^n))) + x \left(b k m n - b k m n {}_3F_2 \left(1, \frac{1}{m}, \frac{1}{m}; 1 + \frac{1}{m}, 1 + \frac{1}{m}; -\frac{f x^m}{e} \right) \right)$$

[In] Integrate[(a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k],x]

[Out]

b*k*m*n*x - k*m*x*(a + b*(-(n*Log[x]) + Log[c*x^n])) + x*(b*k*m*n - b*k*m*n*HypergeometricPFQ[{1, m^(-1), m^(-1)}, {1 + m^(-1), 1 + m^(-1)}, -(f*x^m)/e]) - b*k*m*n*Log[x] + k*m*Hypergeometric2F1[1, m^(-1), 1 + m^(-1), -(f*x^m)/e]*(a - b*n + b*Log[c*x^n]) + a*Log[d*(e + f*x^m)^k] - b*n*Log[d*(e + f*x^m)^k] + b*Log[c*x^n]*Log[d*(e + f*x^m)^k]

Integral number [154]

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x^2} dx$$

[B] time = 0.219905 (sec), size = 282 ,normalized size = 10.85

$2bekmn - 2bekm^2n + afkmx^m$ Hypergeometric2F1 $(1, \frac{-1+m}{m}, 2 - \frac{1}{m}, -\frac{fx^m}{e}) + bek(-1 + m)mn {}_3F_2(1, -$

[In] Integrate[((a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k])/x^2,x]

[Out]

(2*b*e*k*m*n - 2*b*e*k*m^2*n + a*f*k*m*x^m*Hypergeometric2F1[1, (-1 + m)/m, 2 - m^(-1), -(f*x^m)/e]) + b*e*k*(-1 + m)*m*n*HypergeometricPFQ[{1, -m^(-1), -m^(-1)}, {1 - m^(-1), 1 - m^(-1)}, -(f*x^m)/e]) + b*e*k*m*Log[c*x^n] - b*e*k*m^2*Log[c*x^n] + b*e*k*(-1 + m)*m*Hypergeometric2F1[1, -m^(-1), (-1 + m)/m, -(f*x^m)/e]*(n + Log[c*x^n]) + a*e*Log[d*(e + f*x^m)^k] - a*e*m*Log[d*(e + f*x^m)^k] + b*e*n*Log[d*(e + f*x^m)^k] - b*e*m*n*Log[d*(e + f*x^m)^k] + b*e*Log[c*x^n]*Log[d*(e + f*x^m)^k] - b*e*m*Log[c*x^n]*Log[d*(e + f*x^m)^k])/(e*(-1 + m)*x)

Integral number [155]

$$\int \frac{(a + b \log(cx^n)) \log(d(e + fx^m)^k)}{x^3} dx$$

[B] time = 0.236622 (sec), size = 292 ,normalized size = 11.23

$$4bekmn - 2bekm^2n + 4afkmx^m \text{Hypergeometric2F1}\left(1, \frac{-2+m}{m}, 2 - \frac{2}{m}, -\frac{fx^m}{e}\right) + bek(-2+m)mn {}_3F_2\left(1, -\frac{2}{m}, -\frac{2}{m}, \frac{1-2/m, 1-2/m}{-((fx^m)/e)}\right)$$

[In] Integrate[((a + b*Log[c*x^n])*Log[d*(e + f*x^m)^k])/x^3,x]

[Out]

$$(4*b*e*k*m*n - 2*b*e*k*m^2*n + 4*a*f*k*m*x^m*\text{Hypergeometric2F1}[1, (-2 + m)/m, 2 - 2/m, -((f*x^m)/e)] + b*e*k*(-2 + m)*m*n*\text{HypergeometricPFQ}[\{1, -2/m, -2/m\}, \{1 - 2/m, 1 - 2/m\}, -((f*x^m)/e)] + 4*b*e*k*m*\text{Log}[c*x^n] - 2*b*e*k*m^2*\text{Log}[c*x^n] + b*e*k*(-2 + m)*m*\text{Hypergeometric2F1}[1, -2/m, (-2 + m)/m, -((f*x^m)/e)]*(n + 2*\text{Log}[c*x^n]) + 8*a*e*\text{Log}[d*(e + f*x^m)^k] - 4*a*e*m*\text{Log}[d*(e + f*x^m)^k] + 4*b*e*n*\text{Log}[d*(e + f*x^m)^k] - 2*b*e*m*n*\text{Log}[d*(e + f*x^m)^k] + 8*b*e*\text{Log}[c*x^n]*\text{Log}[d*(e + f*x^m)^k] - 4*b*e*m*\text{Log}[c*x^n]*\text{Log}[d*(e + f*x^m)^k])/(8*e*(-2 + m)*x^2)$$

Integral number [226]

$$\int -(dx)^m (a + b \log(cx^n)) \log(1 - ex^q) dx$$

[B] time = 0.31524 (sec), size = 266 ,normalized size = 10.23

$$x(dx)^m \left(-aq - amq + 2bnq - bnq {}_3F_2\left(1, \frac{1}{q} + \frac{m}{q}, \frac{1}{q} + \frac{m}{q}; 1 + \frac{1}{q} + \frac{m}{q}, 1 + \frac{1}{q} + \frac{m}{q}; ex^q\right) - bq \log(cx^n) - bnq \log(1 - ex^q)\right)$$

[In] Integrate[-((d*x)^m*(a + b*Log[c*x^n])*Log[1 - e*x^q]),x]

[Out]

$$-((x*(d*x)^m*(-(a*q) - a*m*q + 2*b*n*q - b*n*q*\text{HypergeometricPFQ}[\{1, q^{(-1)} + m/q, q^{(-1)} + m/q\}, \{1 + q^{(-1)} + m/q, 1 + q^{(-1)} + m/q\}, e*x^q] - b*q*\text{Log}[c*x^n] - b*m*q*\text{Log}[c*x^n] + q*\text{Hypergeometric2F1}[1, (1 + m)/q, (1 + m + q)/q, e*x^q])*(a + a*m - b*n + b*(1 + m)*\text{Log}[c*x^n]) + a*\text{Log}[1 - e*x^q] + 2*a*m*\text{Log}[1 - e*x^q] + a*m^2*\text{Log}[1 - e*x^q] - b*n*\text{Log}[1 - e*x^q] - b*m*n*\text{Log}[1 - e*x^q] + b*\text{Log}[c*x^n]*\text{Log}[1 - e*x^q] + 2*b*m*\text{Log}[c*x^n]*\text{Log}[1 - e*x^q] + b*m^2*\text{Log}[c*x^n]*\text{Log}[1 - e*x^q]))/(1 + m)^3)$$

Maple

Integral number [227]

$$\int (dx)^m (a + b \log(cx^n)) \text{PolyLog}(2, ex^q) dx$$

[B] time = 0.067 (sec), size = 867 ,normalized size = 37.7

result too large to display

[In] int((d*x)^m*(a+b*ln(c*x^n))*polylog(2, e*x^q), x)

[Out]

```

-(d*x)^m*x^(-m)*(-e)^(-m/q-1/q)*a/q*(-q^2*x^(1+m)*(-e)^(m/q+1/q)/(1+m)^2*ln
(1-e*x^q)-q*x^(1+m)*(-e)^(m/q+1/q)/(1+m)*polylog(2, e*x^q)-q^2*x^(1+m+q)*e*(
-e)^(m/q+1/q)/(1+m)^2*LerchPhi(e*x^q, 1, (1+m+q)/q))- (d*x)^m*x^(-m)*(-e)^(-m/
q-1/q)*b*ln(c)/q*(-q^2*x^(1+m)*(-e)^(m/q+1/q)/(1+m)^2*ln(1-e*x^q)-q*x^(1+m)
*(-e)^(m/q+1/q)/(1+m)*polylog(2, e*x^q)-q^2*x^(1+m+q)*e*(-e)^(m/q+1/q)/(1+m)
^2*LerchPhi(e*x^q, 1, (1+m+q)/q))+((-e)^(-m/q-1/q)*ln(-e)/q^2*(d*x)^m*x^(-m)*
b*n*(-q^2*x^m*(-e)^(m/q+1/q)/(1+m)^2*ln(1-e*x^q)-q*x^m*(-e)^(m/q+1/q)/(1+m)
*polylog(2, e*x^q)-q^2*x^(q+m)*e*(-e)^(m/q+1/q)/(1+m)^2*LerchPhi(e*x^q, 1, (1+
m+q)/q))-(-e)^(-m/q-1/q)*(d*x)^m*x^(-m)*b*n/q*(-q^2*x^m*(-e)^(m/q+1/q)*ln(x)
)/(1+m)^2*ln(1-e*x^q)-q*x^m*(-e)^(m/q+1/q)*ln(-e)/(1+m)^2*ln(1-e*x^q)+2*q^2
*x^m*(-e)^(m/q+1/q)/(1+m)^3*ln(1-e*x^q)-q*x^m*(-e)^(m/q+1/q)*ln(x)/(1+m)*po
lylog(2, e*x^q)-x^m*(-e)^(m/q+1/q)*ln(-e)/(1+m)*polylog(2, e*x^q)+q*x^m*(-e)^(
m/q+1/q)/(1+m)^2*polylog(2, e*x^q)-q^2*x^(q+m)*e*(-e)^(m/q+1/q)*ln(x)/(1+m)
^2*LerchPhi(e*x^q, 1, (1+m+q)/q)-q*x^(q+m)*e*(-e)^(m/q+1/q)*ln(-e)/(1+m)^2*Le
rchPhi(e*x^q, 1, (1+m+q)/q)+2*q^2*x^(q+m)*e*(-e)^(m/q+1/q)/(1+m)^3*LerchPhi(e
*x^q, 1, (1+m+q)/q)+q*x^(q+m)*e*(-e)^(m/q+1/q)/(1+m)^2*LerchPhi(e*x^q, 2, (1+m+
q)/q)))x

```

4.5 Test file Number [176]

Mathematica

Integral number [98]

$$\int x^2 \log^3 (c(a + bx^2)^p) dx$$

[B] time = 5.42984 (sec), size = 909 ,normalized size = 50.5

$$\frac{2apx(-p \log(a + bx^2) + \log(c(a + bx^2)^p))^2}{b} - \frac{2a^{3/2}p \arctan\left(\frac{\sqrt{bx}}{\sqrt{a}}\right)(-p \log(a + bx^2) + \log(c(a + bx^2)^p))}{b^{3/2}}$$

[In] Integrate[x^2*Log[c*(a + b*x^2)^p]^3,x]

[Out]

```
(2*a*p*x*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2)/b - (2*a^(3/2)*p*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2)/b^(3/2) + p*x^3*Log[a + b*x^2]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2 + (x^3*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2*(-2*p - p*Log[a + b*x^2] + Log[c*(a + b*x^2)^p]))/3 + 3*p^2*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])*((x^3*Log[a + b*x^2]^2)/3 - (4*((9*I)*a^(3/2)*ArcTan[(Sqrt[b]*x)/Sqrt[a]]^2 + 3*a^(3/2)*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-8 + 6*Log[(2*Sqrt[a])/(Sqrt[a] + I*Sqrt[b]*x)] + 3*Log[a + b*x^2]) + Sqrt[b]*x*(24*a - 2*b*x^2 + (-9*a + 3*b*x^2)*Log[a + b*x^2]) + (9*I)*a^(3/2)*PolyLog[2, (I*Sqrt[a] + Sqrt[b]*x)/((-I)*Sqrt[a] + Sqrt[b]*x)]))/(27*b^(3/2))) + (p^3*(416*Sqrt[-a]*a^(3/2)*Sqrt[(b*x^2)/(a + b*x^2)]*Sqrt[a + b*x^2]*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]] + (2*Sqrt[-a]*b*x^2*(624*a - 16*b*x^2 + (-288*a + 24*b*x^2)*Log[a + b*x^2] + 18*(3*a - b*x^2)*Log[a + b*x^2]^2 + 9*b*x^2*Log[a + b*x^2]^3))/3 + 36*Sqrt[-a]*a^(3/2)*Sqrt[(b*x^2)/(a + b*x^2)]*(8*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, a/(a + b*x^2)] + Log[a + b*x^2]*(4*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, a/(a + b*x^2)] + Sqrt[a + b*x^2]*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]]*Log[a + b*x^2])) - 48*a^2*(4*Sqrt[b*x^2]*ArcTanh[Sqrt[b*x^2]/Sqrt[-a]]*(Log[a + b*x^2] - Log[1 + (b*x^2)/a]) - Sqrt[-a]*Sqrt[-((b*x^2)/a)]*(Log[1 + (b*x^2)/a]^2 - 4*Log[1 + (b*x^2)/a]*Log[(1 + Sqrt[-((b*x^2)/a)])]/2] + 2*Log[(1 + Sqrt[-((b*x^2)/a)])]/2]^2
```

$$- 4*\text{PolyLog}[2, 1/2 - \text{Sqrt}[-((b*x^2)/a)]/2]])))/(18*\text{Sqrt}[-a]*b^2*x)$$

Integral number [99]

$$\int \log^3(c(a + bx^2)^p) dx$$

[B] time = 4.65237 (sec), size = 789 ,normalized size = 56.36

$$\frac{6\sqrt{ap} \arctan\left(\frac{\sqrt{bx}}{\sqrt{a}}\right) (-p \log(a + bx^2) + \log(c(a + bx^2)^p))^2}{\sqrt{b}} + 3px \log(a + bx^2) (-p \log(a + bx^2) + \log(c(a + bx^2)^p))$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3,x]

[Out]

```
(6*Sqrt[a]*p*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-(p*Log[a + b*x^2]) + Log[c*(a +
b*x^2)^p])^2)/Sqrt[b] + 3*p*x*Log[a + b*x^2]*(-(p*Log[a + b*x^2]) + Log[c*(
a + b*x^2)^p])^2 + x*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2*(-6*p -
p*Log[a + b*x^2] + Log[c*(a + b*x^2)^p]) - (3*p^2*(p*Log[a + b*x^2] - Log[
c*(a + b*x^2)^p])*((4*I)*Sqrt[a]*ArcTan[(Sqrt[b]*x)/Sqrt[a]]^2 + 4*Sqrt[a]*
ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-2 + 2*Log[(2*Sqrt[a])/(Sqrt[a] + I*Sqrt[b]*x)
] + Log[a + b*x^2]) + Sqrt[b]*x*(8 - 4*Log[a + b*x^2] + Log[a + b*x^2]^2) +
(4*I)*Sqrt[a]*PolyLog[2, (I*Sqrt[a] + Sqrt[b]*x)/((-I)*Sqrt[a] + Sqrt[b]*x
)]))/Sqrt[b] + (p^3*(-48*Sqrt[-a^2]*Sqrt[(b*x^2)/(a + b*x^2)]*Sqrt[a + b*x^
2]*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]] + Sqrt[-a]*b*x^2*(-48 + 24*Log[a + b*x^2
] - 6*Log[a + b*x^2]^2 + Log[a + b*x^2]^3) - 6*Sqrt[-a^2]*Sqrt[(b*x^2)/(a +
b*x^2)]*(8*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}
, a/(a + b*x^2)] + Log[a + b*x^2]*(4*Sqrt[a]*HypergeometricPFQ[{1/2, 1/2, 1
/2}, {3/2, 3/2}, a/(a + b*x^2)] + Sqrt[a + b*x^2]*ArcSin[Sqrt[a]/Sqrt[a + b
*x^2]]*Log[a + b*x^2])) + 24*a*Sqrt[b*x^2]*ArcTanh[Sqrt[b*x^2]/Sqrt[-a]]*(L
og[a + b*x^2] - Log[1 + (b*x^2)/a]) + 6*(-a)^(3/2)*Sqrt[-((b*x^2)/a)]*(Log[
1 + (b*x^2)/a]^2 - 4*Log[1 + (b*x^2)/a]*Log[(1 + Sqrt[-((b*x^2)/a)])/2] + 2
*Log[(1 + Sqrt[-((b*x^2)/a)])/2]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((b*x^2)/a)]/
2])))/(Sqrt[-a]*b*x)
```

Integral number [100]

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^2} dx$$

[C] time = 1.72083 (sec), size = 505 ,normalized size = 28.06

$$\frac{p^3 \left(-96\sqrt{a}\sqrt{1 - \frac{a}{a+bx^2}} {}_4F_3\left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \frac{1}{2}; \frac{3}{2}, \frac{3}{2}, \frac{3}{2}; \frac{a}{a+bx^2}\right) - 48\sqrt{a}\sqrt{1 - \frac{a}{a+bx^2}} {}_3F_2\left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2}; \frac{3}{2}, \frac{3}{2}; \frac{a}{a+bx^2}\right) \log(a + bx^2) \right)}{2\sqrt{ax}}$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3/x^2,x]

[Out]

$$\begin{aligned} & (p^3(-96\sqrt{a}\sqrt{1 - a/(a + bx^2)}\text{HypergeometricPFQ}\{\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, a/(a + bx^2)\} - 48\sqrt{a}\sqrt{1 - a/(a + bx^2)} \\ & \text{HypergeometricPFQ}\{\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, a/(a + bx^2)\}\text{Log}[a + bx^2] - 2\text{Log}[a + bx^2]^2(6\sqrt{a + bx^2}\sqrt{1 - a/(a + bx^2)}\text{ArcSin}[\text{Sqrt}[a]/\text{Sqrt}[a + bx^2]] + \text{Sqrt}[a]\text{Log}[a + bx^2]))/(2\sqrt{a}x) + (6\sqrt{a} \\ & \text{Sqrt}[b]p\text{ArcTan}[(\text{Sqrt}[b]x)/\text{Sqrt}[a]](-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p]^2)/\text{Sqrt}[a] - (3p\text{Log}[a + bx^2](-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p]^2)/x - (-p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p]^3/x + 3p^2(-p \\ & \text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p])(-\text{Log}[a + bx^2]^2/x) + (4\sqrt{a} \\ & \text{Sqrt}[b](\text{ArcTan}[(\text{Sqrt}[b]x)/\text{Sqrt}[a]](I\text{ArcTan}[(\text{Sqrt}[b]x)/\text{Sqrt}[a]] + 2\text{Log}[(2I)/(I - (\text{Sqrt}[b]x)/\text{Sqrt}[a])]) + \text{Log}[a + bx^2]) + I\text{PolyLog}[2, (I\sqrt{a} + \text{Sqrt}[b]x)/((-I)\sqrt{a} + \text{Sqrt}[b]x)]))/\text{Sqrt}[a] \end{aligned}$$

Integral number [101]

$$\int \frac{\log^3(c(a + bx^2)^p)}{x^4} dx$$

[B] time = 3.70975 (sec), size = 851 ,normalized size = 47.28

$$a^2(p \log(a + bx^2) - \log(c(a + bx^2)^p))^3 - 6abpx^2(-p \log(a + bx^2) + \log(c(a + bx^2)^p))^2 - 6\sqrt{ab^3/2}px^3 \arctan\left(\frac{\sqrt{b}x}{\sqrt{a}}\right)$$

[In] Integrate[Log[c*(a + b*x^2)^p]^3/x^4,x]

[Out]

$$(a^2(p\text{Log}[a + bx^2] - \text{Log}[c(a + bx^2)^p])^3 - 6a*b*p*x^2*(-(p\text{Log}[a + bx^2]) + \text{Log}[c(a + bx^2)^p])^2 - 6\sqrt{a}*b^(3/2)*p*x^3*\text{ArcTan}[(\text{Sqrt}[b]x)/\text{Sqrt}[a]])/\text{Sqrt}[a]$$

]*x)/Sqrt[a]]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2 - 3*a^2*p*Log[a + b*x^2]*(-(p*Log[a + b*x^2]) + Log[c*(a + b*x^2)^p])^2 + 3*Sqrt[a]*p^2*(p*Log[a + b*x^2] - Log[c*(a + b*x^2)^p])*(a^(3/2)*Log[a + b*x^2]^2 + 4*b*x^2*(I*Sqrt[b]*x*ArcTan[(Sqrt[b]*x)/Sqrt[a]]^2 + Sqrt[a]*Log[a + b*x^2] + Sqrt[b]*x*ArcTan[(Sqrt[b]*x)/Sqrt[a]]*(-2 + 2*Log[(2*Sqrt[a])/(Sqrt[a] + I*Sqrt[b]*x)] + Log[a + b*x^2]) + I*Sqrt[b]*x*PolyLog[2, (I*Sqrt[a] + Sqrt[b]*x)/((-I)*Sqrt[a] + Sqrt[b]*x)])) + p^3*(48*a*b*x^2*Sqrt[(b*x^2)/(a + b*x^2)]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, a/(a + b*x^2)] + 24*Sqrt[-a]*(b*x^2)^(3/2)*ArcTanh[Sqrt[b*x^2]/Sqrt[-a]]*Log[a + b*x^2] + 24*a*b*x^2*Sqrt[(b*x^2)/(a + b*x^2)]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, a/(a + b*x^2)]*Log[a + b*x^2] - 6*a*b*x^2*Log[a + b*x^2]^2 + 6*Sqrt[a]*((b*x^2)/(a + b*x^2))^(3/2)*(a + b*x^2)^(3/2)*ArcSin[Sqrt[a]/Sqrt[a + b*x^2]]*Log[a + b*x^2]^2 - a^2*Log[a + b*x^2]^3 - 24*Sqrt[-a]*(b*x^2)^(3/2)*ArcTanh[Sqrt[b*x^2]/Sqrt[-a]]*Log[1 + (b*x^2)/a] - 6*a^2*(-((b*x^2)/a))^(3/2)*Log[1 + (b*x^2)/a]^2 + 24*a^2*(-((b*x^2)/a))^(3/2)*Log[1 + (b*x^2)/a]*Log[(1 + Sqrt[-((b*x^2)/a)])/2] - 12*a^2*(-((b*x^2)/a))^(3/2)*Log[(1 + Sqrt[-((b*x^2)/a)])/2]^2 + 24*a^2*(-((b*x^2)/a))^(3/2)*PolyLog[2, 1/2 - Sqrt[-((b*x^2)/a)])/2]))/(3*a^2*x^3)

Integral number [158]

$$\int (fx)^m \log^3 (c(d + ex^2)^p) dx$$

[B] time = 3.10054 (sec), size = 994 ,normalized size = 49.7

$$(fx)^m \left((1 + m)p^3x^2 \log^3 (d + ex^2) + \frac{6p^3 \left(-\frac{ex^2}{d}\right)^{\frac{1-m}{2}} \left(-((1+m)(d+ex^2) {}_4F_3\left(1,1,1,\frac{1}{2}-\frac{m}{2};2,2,2;1+\frac{ex^2}{d}\right)\right) + (1+m)(d+ex^2) {}_3F_2}{e}$$

[In] Integrate[(f*x)^m*Log[c*(d + e*x^2)^p]^3,x]

[Out]

((f*x)^m*((1 + m)*p^3*x^2*Log[d + e*x^2]^3 + (6*p^3*(-((e*x^2)/d))^(1 - m)/2)*(-((1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 + (e*x^2)/d]) + (1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2}, 1 + (e*x^2)/d]*Log[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^(1 + m)/

2))*Log[d + e*x^2]^2))/e + (6*d*(1 + m)*p^3*((e*x^2)/(d + e*x^2))^(1/2 - m/2)*(8*HypergeometricPFQ[{1/2 - m/2, 1/2 - m/2, 1/2 - m/2, 1/2 - m/2}, {3/2 - m/2, 3/2 - m/2, 3/2 - m/2}, d/(d + e*x^2)] + (-1 + m)*Log[d + e*x^2]*(-4*HypergeometricPFQ[{1/2 - m/2, 1/2 - m/2, 1/2 - m/2}, {3/2 - m/2, 3/2 - m/2}, d/(d + e*x^2)] + (-1 + m)*Hypergeometric2F1[1/2 - m/2, 1/2 - m/2, 3/2 - m/2, d/(d + e*x^2)]*Log[d + e*x^2])))/(e*(-1 + m)^3) - (3*p^2*(-((e*x^2)/d))^(1 - m/2)*(-((1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 + (e*x^2)/d]) + (1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2}, 1 + (e*x^2)/d]*Log[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^(1 + m/2))*Log[d + e*x^2]^2)*(-p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]))/e - (3*m*p^2*(-((e*x^2)/d))^(1 - m/2)*(-((1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1, 1/2 - m/2}, {2, 2, 2}, 1 + (e*x^2)/d]) + (1 + m)*(d + e*x^2)*HypergeometricPFQ[{1, 1, 1/2 - m/2}, {2, 2}, 1 + (e*x^2)/d]*Log[d + e*x^2] + d*(-1 + (-((e*x^2)/d))^(1 + m/2))*Log[d + e*x^2]^2)*(-p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]))/e + (3*p*x^2*(-2*e*x^2*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)] + d*(3 + m)*Log[d + e*x^2])*(-p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p])^2/(d*(3 + m)) + (3*m*p*x^2*(-2*e*x^2*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)] + d*(3 + m)*Log[d + e*x^2])*(-p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p])^2/(d*(3 + m)) + x^2*(-(p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p])^3 + m*x^2*(-(p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p])^3))/((1 + m)^2*x)

Integral number [159]

$$\int (fx)^m \log^2 (c(d + ex^2)^p) dx$$

[B] time = 0.902869 (sec), size = 466 ,normalized size = 23.3

$$(fx)^m \left(4p^2 x \left(\frac{2ex^2 \text{Hypergeometric2F1}\left(1, \frac{3+m}{2}, \frac{5+m}{2}, -\frac{ex^2}{d}\right)}{d(3+m)} - \log(d + ex^2) \right) + (1 + m)p^2 x \log^2(d + ex^2) + \frac{4d(1+m)}{d(3+m)} \right)$$

[In] Integrate[(f*x)^m*Log[c*(d + e*x^2)^p]^2,x]

[Out]

((f*x)^m*(4*p^2*x*((2*e*x^2*Hypergeometric2F1[1, (3 + m)/2, (5 + m)/2, -((e*x^2)/d)])/(d*(3 + m)) - Log[d + e*x^2]) + (1 + m)*p^2*x*Log[d + e*x^2]^2 +

$$\begin{aligned} & (4*d*(1+m)*p^2*((e*x^2)/(d+e*x^2))^{(1/2-m/2)}*(-2*HypergeometricPFQ[\{ \\ & 1/2-m/2, 1/2-m/2, 1/2-m/2\}, \{3/2-m/2, 3/2-m/2\}, d/(d+e*x^2)] + \\ & (-1+m)*Hypergeometric2F1[1/2-m/2, 1/2-m/2, 3/2-m/2, d/(d+e*x^2)]* \\ & \text{Log}[d+e*x^2]))/(e*(-1+m)^{2*x}) + (2*p*(2*e*x^3*Hypergeometric2F1[1, (3+ \\ & m)/2, (5+m)/2, -((e*x^2)/d)] - d*(3+m)*x*\text{Log}[d+e*x^2])*(p*\text{Log}[d+e* \\ & x^2] - \text{Log}[c*(d+e*x^2)^p]))/(d*(3+m)) - (2*m*p*(-2*e*x^3*Hypergeometric \\ & 2F1[1, (3+m)/2, (5+m)/2, -((e*x^2)/d)] + d*(3+m)*x*\text{Log}[d+e*x^2])*(p \\ & *\text{Log}[d+e*x^2] - \text{Log}[c*(d+e*x^2)^p]))/(d*(3+m)) + x*(-(p*\text{Log}[d+e*x^2] \\ &]) + \text{Log}[c*(d+e*x^2)^p])^2 + m*x*(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x^2) \\ & ^p])^2)/(1+m)^2 \end{aligned}$$

Integral number [277]

$$\int (f + gx^2) \log^3 (c(d + ex^2)^p) dx$$

[B] time = 12.9792 (sec), size = 1772 ,normalized size = 80.55

result too large to display

[In] Integrate[(f + g*x^2)*Log[c*(d + e*x^2)^p]^3,x]

[Out]

$$\begin{aligned} & (2*d*g*p*x*(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x^2)^p])^2)/e + (6*\text{Sqrt}[d]*f \\ & *p*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x^2)^p]) \\ & ^2)/\text{Sqrt}[e] - (2*d^{(3/2)}*g*p*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-(p*\text{Log}[d+e*x^2] \\ &]) + \text{Log}[c*(d+e*x^2)^p])^2)/e^{(3/2)} + 3*f*p*x*\text{Log}[d+e*x^2]*(-(p*\text{Log}[d+ \\ & e*x^2]) + \text{Log}[c*(d+e*x^2)^p])^2 + g*p*x^3*\text{Log}[d+e*x^2]*(-(p*\text{Log}[d+e* \\ & x^2]) + \text{Log}[c*(d+e*x^2)^p])^2 + f*x*(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x \\ & ^2)^p])^2*(-6*p - p*\text{Log}[d+e*x^2] + \text{Log}[c*(d+e*x^2)^p]) + (g*x^3*(-(p*\text{Lo} \\ & g[d+e*x^2]) + \text{Log}[c*(d+e*x^2)^p])^2*(-2*p - p*\text{Log}[d+e*x^2] + \text{Log}[c*(d \\ & +e*x^2)^p]))/3 + 3*f*p^2*(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x^2)^p])*(x* \\ & \text{Log}[d+e*x^2]^2 - (4*((-I)*\text{Sqrt}[d]*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]^2 + \text{Sqrt}[e] \\ & *x*(-2 + \text{Log}[d+e*x^2]) - \text{Sqrt}[d]*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-2 + 2*\text{Log}[\\ & (2*\text{Sqrt}[d])/(\text{Sqrt}[d] + I*\text{Sqrt}[e]*x)] + \text{Log}[d+e*x^2]) - I*\text{Sqrt}[d]*\text{PolyLog}[\\ & 2, (I*\text{Sqrt}[d] + \text{Sqrt}[e]*x)/((-I)*\text{Sqrt}[d] + \text{Sqrt}[e]*x)]))/\text{Sqrt}[e]) + 3*g*p^2 \\ & *(-(p*\text{Log}[d+e*x^2]) + \text{Log}[c*(d+e*x^2)^p])*((x^3*\text{Log}[d+e*x^2]^2)/3 - (\\ & 4*((9*I)*d^{(3/2)}*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]^2 + 3*d^{(3/2)}*\text{ArcTan}[(\text{Sqrt}[e]* \end{aligned}$$

$x)/\text{Sqrt}[d]]*(-8 + 6*\text{Log}[(2*\text{Sqrt}[d])/(\text{Sqrt}[d] + I*\text{Sqrt}[e]*x)] + 3*\text{Log}[d + e*x^2]) + \text{Sqrt}[e]*x*(24*d - 2*e*x^2 + (-9*d + 3*e*x^2)*\text{Log}[d + e*x^2]) + (9*I)*d^{(3/2)}*\text{PolyLog}[2, (I*\text{Sqrt}[d] + \text{Sqrt}[e]*x)/((-I)*\text{Sqrt}[d] + \text{Sqrt}[e]*x)))/(27*e^{(3/2)}) + (g*p^3*(416*\text{Sqrt}[-d]*d^{(3/2)}*\text{Sqrt}[d + e*x^2]*\text{Sqrt}[1 - d/(d + e*x^2)]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]] + 36*\text{Sqrt}[-d]*d^{(3/2)}*\text{Sqrt}[1 - d/(d + e*x^2)]*(8*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, d/(d + e*x^2)] + 4*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, d/(d + e*x^2)]*\text{Log}[d + e*x^2] + \text{Sqrt}[d + e*x^2]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]]*\text{Log}[d + e*x^2]^2 - (2*\text{Sqrt}[-d]*e*x^2*((d + e*x^2)*(16 - 24*\text{Log}[d + e*x^2] + 18*\text{Log}[d + e*x^2]^2 - 9*\text{Log}[d + e*x^2]^3) + d*(-640 + 312*\text{Log}[d + e*x^2] - 72*\text{Log}[d + e*x^2]^2 + 9*\text{Log}[d + e*x^2]^3)))/3 - 48*d^2*(4*\text{Sqrt}[e*x^2]*\text{ArcTanh}[\text{Sqrt}[e*x^2]/\text{Sqrt}[-d]]*(\text{Log}[d + e*x^2] - \text{Log}[(d + e*x^2)/d]) - \text{Sqrt}[-d]*\text{Sqrt}[1 - (d + e*x^2)/d]*(\text{Log}[(d + e*x^2)/d]^2 - 4*\text{Log}[(d + e*x^2)/d])*\text{Log}[(1 + \text{Sqrt}[1 - (d + e*x^2)/d])/2] + 2*\text{Log}[(1 + \text{Sqrt}[1 - (d + e*x^2)/d])/2])^2 - 4*\text{PolyLog}[2, 1/2 - \text{Sqrt}[1 - (d + e*x^2)/d]/2])))/(18*\text{Sqrt}[-d]*e^2*x) + (f*p^3*(-48*\text{Sqrt}[-d^2]*\text{Sqrt}[d + e*x^2]*\text{Sqrt}[1 - d/(d + e*x^2)]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]] - 6*\text{Sqrt}[-d^2]*\text{Sqrt}[1 - d/(d + e*x^2)]*(8*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, d/(d + e*x^2)] + 4*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, d/(d + e*x^2)]*\text{Log}[d + e*x^2] + \text{Sqrt}[d + e*x^2]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]]*\text{Log}[d + e*x^2]^2 + \text{Sqrt}[-d]*e*x^2*(-48 + 24*\text{Log}[d + e*x^2] - 6*\text{Log}[d + e*x^2]^2 + \text{Log}[d + e*x^2]^3) + 24*d*\text{Sqrt}[e*x^2]*\text{ArcTanh}[\text{Sqrt}[e*x^2]/\text{Sqrt}[-d]]*(\text{Log}[d + e*x^2] - \text{Log}[(d + e*x^2)/d]) + 6*(-d)^{(3/2)}*\text{Sqrt}[1 - (d + e*x^2)/d]*(\text{Log}[(d + e*x^2)/d]^2 - 4*\text{Log}[(d + e*x^2)/d])*\text{Log}[(1 + \text{Sqrt}[1 - (d + e*x^2)/d])/2] + 2*\text{Log}[(1 + \text{Sqrt}[1 - (d + e*x^2)/d])/2])^2 - 4*\text{PolyLog}[2, 1/2 - \text{Sqrt}[1 - (d + e*x^2)/d]/2])))/(\text{Sqrt}[-d]*e*x)$

Integral number [298]

$$\int (f + gx^3)^2 \log^3 (c(d + ex^2)^p) dx$$

[B] time = 10.9614 (sec), size = 2385 ,normalized size = 99.38

Result too large to show

[In] Integrate[(f + g*x^3)^2*Log[c*(d + e*x^2)^p]^3,x]

[Out]

$$\begin{aligned}
& (f*g*p^3*(d + e*x^2)*(-8*d*(-6 + 6*\text{Log}[d + e*x^2] - 3*\text{Log}[d + e*x^2]^2 + \text{Log}[d + e*x^2]^3) + (d + e*x^2)*(-3 + 6*\text{Log}[d + e*x^2] - 6*\text{Log}[d + e*x^2]^2 + 4*\text{Log}[d + e*x^2]^3)))/(8*e^2) + 6*f*g*p^2*((x^4*\text{Log}[d + e*x^2]^2)/4 - e*((3*d*x^2)/(4*e^2) - x^4/(8*e) - (3*d^2*\text{Log}[d + e*x^2])/(4*e^3) - (d*x^2*\text{Log}[d + e*x^2])/(2*e^2) + (x^4*\text{Log}[d + e*x^2])/(4*e) + (d^2*\text{Log}[d + e*x^2]^2)/(4*e^3)))*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p]) + (3*d*f*g*p*x^2*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2)/(2*e) - (2*d^2*g^2*p*x^3*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2)/(7*e^2) + (6*d*g^2*p*x^5*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2)/(35*e) - (3*d^2*f*g*p*\text{Log}[d + e*x^2]*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2)/(2*e^2) + (3*p*x*(14*f^2 + 7*f*g*x^3 + 2*g^2*x^6)*\text{Log}[d + e*x^2]*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2)/14 + (f*g*x^4*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2*(-3*p + 2*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])))/4 + (g^2*x^7*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2*(-6*p + 7*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])))/49 + (x*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2*(-42*e^3*f^2*p + 6*d^3*g^2*p + 7*e^3*f^2*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])))/(7*e^3) - (6*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-7*d*e^3*f^2*p*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2 + d^4*g^2*p*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])^2))/(7*\text{Sqrt}[d]*e^(7/2)) + 3*f^2*p^2*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])*(x*\text{Log}[d + e*x^2]^2 - (4*((-I)*\text{Sqrt}[d]*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]^2 + \text{Sqrt}[e]*x*(-2 + \text{Log}[d + e*x^2]) - \text{Sqrt}[d]*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-2 + 2*\text{Log}[(2*\text{Sqrt}[d])]/(\text{Sqrt}[d] + I*\text{Sqrt}[e]*x)) + \text{Log}[d + e*x^2]) - I*\text{Sqrt}[d]*\text{PolyLog}[2, (I*\text{Sqrt}[d] + \text{Sqrt}[e]*x)/((-I)*\text{Sqrt}[d] + \text{Sqrt}[e]*x)]))/\text{Sqrt}[e]) + 3*g^2*p^2*(-(p*\text{Log}[d + e*x^2]) + \text{Log}[c*(d + e*x^2)^p])*((x^7*\text{Log}[d + e*x^2]^2)/7 - (4*((11025*I)*d^(7/2)*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]^2 + 105*d^(7/2)*\text{ArcTan}[(\text{Sqrt}[e]*x)/\text{Sqrt}[d]]*(-352 + 210*\text{Log}[(2*\text{Sqrt}[d])]/(\text{Sqrt}[d] + I*\text{Sqrt}[e]*x)) + 105*\text{Log}[d + e*x^2]) + \text{Sqrt}[e]*x*(36960*d^3 - 4970*d^2*e*x^2 + 1512*d*e^2*x^4 - 450*e^3*x^6 - 105*(105*d^3 - 35*d^2*e*x^2 + 21*d*e^2*x^4 - 15*e^3*x^6)*\text{Log}[d + e*x^2]) + (11025*I)*d^(7/2)*\text{PolyLog}[2, (I*\text{Sqrt}[d] + \text{Sqrt}[e]*x)/((-I)*\text{Sqrt}[d] + \text{Sqrt}[e]*x)]))/((77175*e^(7/2))) + (g^2*p^3*(702272*\text{Sqrt}[-d]*d^(7/2)*\text{Sqrt}[d + e*x^2]*\text{Sqrt}[1 - d/(d + e*x^2)]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]] + 44100*\text{Sqrt}[-d]*d^(7/2)*\text{Sqrt}[1 - d/(d + e*x^2)]*(8*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2, 1/2\}, \{3/2, 3/2, 3/2\}, d/(d + e*x^2)] + 4*\text{Sqrt}[d]*\text{HypergeometricPFQ}[\{1/2, 1/2, 1/2\}, \{3/2, 3/2\}, d/(d + e*x^2)]*\text{Log}[d + e*x^2] + \text{Sqrt}[d + e*x^2]*\text{ArcSin}[\text{Sqrt}[d]/\text{Sqrt}[d + e*x^2]]*\text{Log}[d + e*x^2]^2 - (2*\text{Sqrt}[-d]*e*x^2*(-1125*(d + e*x^2)^3*(-48 + 168*\text{Log}[d + e*x^2] - 294*\text{Log}[d + e*x^2]^2 + 343*\text{Log}[d + e*x^2]^3) + 27*d*(d + e*x^2)^2*(-18208 + 44520*\text{Log}[d + e*x^2] - 53900*\text{Log}[d + e*x^2]^2 + 42875*\text{Log}[d + e*x^2]^3) + d^3*(-39193856 + 18434640*\text{Log}[d + e*x^2] - 3880800*\text{Log}[
\end{aligned}$$

$d + e*x^2)^2 + 385875*Log[d + e*x^2]^3) - d^2*(d + e*x^2)*(-2762192 + 3924480*Log[d + e*x^2] - 2690100*Log[d + e*x^2]^2 + 1157625*Log[d + e*x^2]^3))/105 - 73920*d^4*(4*Sqrt[e*x^2]*ArcTanh[Sqrt[e*x^2]/Sqrt[-d]]*(Log[d + e*x^2] - Log[(d + e*x^2)/d]) - Sqrt[-d]*Sqrt[1 - (d + e*x^2)/d]*(Log[(d + e*x^2)/d]^2 - 4*Log[(d + e*x^2)/d]*Log[(1 + Sqrt[1 - (d + e*x^2)/d])/2] + 2*Log[(1 + Sqrt[1 - (d + e*x^2)/d])/2]^2 - 4*PolyLog[2, 1/2 - Sqrt[1 - (d + e*x^2)/d]/2])))/(51450*Sqrt[-d]*e^4*x) + (f^2*p^3*(-48*Sqrt[-d^2]*Sqrt[d + e*x^2]*Sqrt[1 - d/(d + e*x^2)]*ArcSin[Sqrt[d]/Sqrt[d + e*x^2]] - 6*Sqrt[-d^2]*Sqrt[1 - d/(d + e*x^2)]*(8*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^2)] + 4*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^2)]*Log[d + e*x^2] + Sqrt[d + e*x^2]*ArcSin[Sqrt[d]/Sqrt[d + e*x^2]]*Log[d + e*x^2]^2) + Sqrt[-d]*e*x^2*(-48 + 24*Log[d + e*x^2] - 6*Log[d + e*x^2]^2 + Log[d + e*x^2]^3) + 24*d*Sqrt[e*x^2]*ArcTanh[Sqrt[e*x^2]/Sqrt[-d]]*(Log[d + e*x^2] - Log[(d + e*x^2)/d]) + 6*(-d)^(3/2)*Sqrt[1 - (d + e*x^2)/d]*(Log[(d + e*x^2)/d]^2 - 4*Log[(d + e*x^2)/d]*Log[(1 + Sqrt[1 - (d + e*x^2)/d])/2] + 2*Log[(1 + Sqrt[1 - (d + e*x^2)/d])/2]^2 - 4*PolyLog[2, 1/2 - Sqrt[1 - (d + e*x^2)/d]/2])))/(Sqrt[-d]*e*x)$

Integral number [299]

$$\int (f + gx^3) \log^3 (c(d + ex^2)^p) dx$$

[B] time = 2.33873 (sec), size = 1051 ,normalized size = 47.77

$$\frac{1}{4}gx^4 \log^3 (c(d + ex^2)^p) + \frac{6\sqrt{d}fp \arctan\left(\frac{\sqrt{ex}}{\sqrt{d}}\right) (-p \log (d + ex^2) + \log (c(d + ex^2)^p))^2}{\sqrt{e}} + 3fp x \log (d + e$$

[In] Integrate[(f + g*x^3)*Log[c*(d + e*x^2)^p]^3,x]

[Out]

$(g*x^4*Log[c*(d + e*x^2)^p]^3)/4 + (6*Sqrt[d]*f*p*ArcTan[(Sqrt[e]*x)/Sqrt[d]]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2/Sqrt[e] + 3*f*p*x*Log[d + e*x^2]*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2 + f*x*(-(p*Log[d + e*x^2]) + Log[c*(d + e*x^2)^p])^2*(-6*p - p*Log[d + e*x^2] + Log[c*(d + e*x^2)^p]) - (3*g*p*((-7*d*p^2*x^2)/(2*e) + (p^2*x^4)/4 + (d^2*p^2*Log[d + e*x^2])/(2*e^2) + (3*d^2*p*Log[c*(d + e*x^2)^p])/e^2 + (3*d*p*x^2*Log[c*(d + e$

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*x^2)^p])/e - (p*x^4*Log[c*(d + e*x^2)^p])/2 - (3*d^2*Log[c*(d + e*x^2)^p]^
2)/(2*e^2) - (d*x^2*Log[c*(d + e*x^2)^p]^2)/e + (x^4*Log[c*(d + e*x^2)^p]^2
)/2 + (d^2*Log[c*(d + e*x^2)^p]^3)/(3*e^2*p))/4 + 3*f*p^2*(-(p*Log[d + e*x
^2]) + Log[c*(d + e*x^2)^p]*(x*Log[d + e*x^2]^2 - (4*((-I)*Sqrt[d]*ArcTan[
(Sqrt[e]*x)/Sqrt[d]]^2 + Sqrt[e]*x*(-2 + Log[d + e*x^2]) - Sqrt[d]*ArcTan[(
Sqrt[e]*x)/Sqrt[d]]*(-2 + 2*Log[(2*Sqrt[d])/(Sqrt[d] + I*Sqrt[e]*x)] + Log[
d + e*x^2]) - I*Sqrt[d]*PolyLog[2, (I*Sqrt[d] + Sqrt[e]*x)/((-I)*Sqrt[d] +
Sqrt[e]*x)]))/Sqrt[e]) + (f*p^3*(-48*Sqrt[-d^2]*Sqrt[d + e*x^2]*Sqrt[1 - d/
(d + e*x^2)]*ArcSin[Sqrt[d]/Sqrt[d + e*x^2]] - 6*Sqrt[-d^2]*Sqrt[1 - d/(d +
e*x^2)]*(8*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}
, d/(d + e*x^2)] + 4*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2},
d/(d + e*x^2)]*Log[d + e*x^2] + Sqrt[d + e*x^2]*ArcSin[Sqrt[d]/Sqrt[d + e
x^2]]*Log[d + e*x^2]^2 + Sqrt[-d]*e*x^2*(-48 + 24*Log[d + e*x^2] - 6*Log[d
+ e*x^2]^2 + Log[d + e*x^2]^3) + 24*d*Sqrt[e*x^2]*ArcTanh[Sqrt[e*x^2]/Sqrt
[-d]]*(Log[d + e*x^2] - Log[(d + e*x^2)/d]) + 6*(-d)^(3/2)*Sqrt[1 - (d + e
x^2)/d]*(Log[(d + e*x^2)/d]^2 - 4*Log[(d + e*x^2)/d]*Log[(1 + Sqrt[1 - (d +
e*x^2)/d])/2] + 2*Log[(1 + Sqrt[1 - (d + e*x^2)/d])/2]^2 - 4*PolyLog[2, 1/
2 - Sqrt[1 - (d + e*x^2)/d]/2])))/(Sqrt[-d]*e*x)

```

Integral number [485]

$$\int x^2 \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3 dx$$

[A] time = 12.5515 (sec), size = 1552 ,normalized size = 64.67

result too large to display

[In] Integrate[x^2*(a + b*Log[c*(d + e*x^(2/3))^n])^3,x]

[Out]

```

(-2*b*d^4*n*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n
])^2)/e^4 + (2*b*d^3*n*x*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/
3))^n])^2)/(3*e^3) - (2*b*d^2*n*x^(5/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log
[c*(d + e*x^(2/3))^n])^2)/(5*e^2) + (2*b*d*n*x^(7/3)*(a - b*n*Log[d + e*x^(
2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(7*e) + (2*b*d^(9/2)*n*ArcTan[(Sqrt[
e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^
n])^2)/e^(9/2) + b*n*x^3*Log[d + e*x^(2/3)]*(a - b*n*Log[d + e*x^(2/3)] + b

```

```

*Log[c*(d + e*x^(2/3))^n]^2 + (x^3*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(
d + e*x^(2/3))^n])^2*(3*a - 2*b*n - 3*b*n*Log[d + e*x^(2/3)] + 3*b*Log[c*(d
+ e*x^(2/3))^n]))/9 - (b^3*n^3*(1094783760*d^(9/2)*Sqrt[d + e*x^(2/3)]*Sqr
t[(e*x^(2/3))/(d + e*x^(2/3))]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]] - e*x^(2
/3)*(-16*(68423985*d^4 - 4186770*d^3*e*x^(2/3) + 871542*d^2*e^2*x^(4/3) - 2
17125*d*e^3*x^2 + 42875*e^4*x^(8/3)) + 2520*(177345*d^4 - 26040*d^3*e*x^(2/
3) + 9009*d^2*e^2*x^(4/3) - 3600*d*e^3*x^2 + 1225*e^4*x^(8/3))*Log[d + e*x^
(2/3)] - 198450*(315*d^4 - 105*d^3*e*x^(2/3) + 63*d^2*e^2*x^(4/3) - 45*d*e^
3*x^2 + 35*e^4*x^(8/3))*Log[d + e*x^(2/3)]^2 + 10418625*e^4*x^(8/3)*Log[d +
e*x^(2/3)]^3) + 62511750*d^(9/2)*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*(8*Sqrt
[d]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^(2/
3))] + Log[d + e*x^(2/3)]*(4*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/
2, 3/2}, d/(d + e*x^(2/3))] + Sqrt[d + e*x^(2/3)]*ArcSin[Sqrt[d]/Sqrt[d + e
*x^(2/3)]]*Log[d + e*x^(2/3)])) + 111727350*(-d)^(9/2)*(4*Sqrt[e*x^(2/3)]*A
rcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*(Log[d + e*x^(2/3)] - Log[1 + (e*x^(2/3))/
d]) - Sqrt[-d]*Sqrt[-((e*x^(2/3))/d)]*(2*Log[(1 + Sqrt[-((e*x^(2/3))/d)])/2
]^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3))/d)])/2])*Log[1 + (e*x^(2/3))/d] + Log[1
+ (e*x^(2/3))/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((e*x^(2/3))/d)]/2])))/(3125
5875*e^5*x^(1/3)) + (b^2*n^2*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*
(d + e*x^(2/3))^n])*((1418760*d^(9/2)*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]])/
(Sqrt[d + e*x^(2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]) + 1225*(d + e*x^(2/
3))^4*(8 - 36*Log[d + e*x^(2/3)] + 81*Log[d + e*x^(2/3)]^2) - 100*d*(d + e*
x^(2/3))^3*(680 - 2331*Log[d + e*x^(2/3)] + 3969*Log[d + e*x^(2/3)]^2) + d^
4*(1737752 - 709380*Log[d + e*x^(2/3)] + 99225*Log[d + e*x^(2/3)]^2) - 4*d^
3*(d + e*x^(2/3))*(119516 - 159390*Log[d + e*x^(2/3)] + 99225*Log[d + e*x^(
2/3)]^2) + 6*d^2*(d + e*x^(2/3))^2*(36212 - 85680*Log[d + e*x^(2/3)] + 9922
5*Log[d + e*x^(2/3)]^2) + (396900*(-d)^(9/2)*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-
d]]*(Log[d + e*x^(2/3)] - Log[1 + (e*x^(2/3))/d])/Sqrt[e*x^(2/3)] - (99225
*d^4*(2*Log[(1 + Sqrt[-((e*x^(2/3))/d)])/2]^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3)
)/d)])/2])*Log[1 + (e*x^(2/3))/d] + Log[1 + (e*x^(2/3))/d]^2 - 4*PolyLog[2,
1/2 - Sqrt[-((e*x^(2/3))/d)]/2])/Sqrt[-((e*x^(2/3))/d)))/(99225*e^4)

```

Integral number [486]

$$\int \left(a + b \log \left(c(d + ex^{2/3})^n \right) \right)^3 dx$$

[B] time = 9.40003 (sec), size = 1299 ,normalized size = 64.95

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3,x]

[Out]

$$\begin{aligned}
 & (6*b*d*n*x^{1/3}*(a - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n])^2/e - (6*b*d^{3/2}*n*ArcTan[(Sqrt[e]*x^{1/3})/Sqrt[d]]*(a - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n])^2/e^{3/2} + 3*b*n*x*Log[d + e*x^{2/3}])*(a - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n])^2 + x*(a - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n])^2*(a - 2*b*n - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n]) + (b^2*n^2*x^{1/3}*(a - b*n*Log[d + e*x^{2/3}] + b*Log[c*(d + e*x^{2/3})^n])*((-96*d^{3/2}*ArcSin[Sqrt[d]/Sqrt[d + e*x^{2/3}]])/(Sqrt[d + e*x^{2/3}])*Sqrt[(e*x^{2/3})/(d + e*x^{2/3})]) - d*(104 - 48*Log[d + e*x^{2/3}] + 9*Log[d + e*x^{2/3}]^2) + (d + e*x^{2/3})*(8 - 12*Log[d + e*x^{2/3}] + 9*Log[d + e*x^{2/3}]^2) + (36*(-d)^{3/2}*ArcTanh[Sqrt[e*x^{2/3}]/Sqrt[-d]]*(Log[d + e*x^{2/3}] - Log[1 + (e*x^{2/3})/d])/Sqrt[e*x^{2/3}] + (9*d*(2*Log[(1 + Sqrt[-((e*x^{2/3})/d])])/2]^2 - 4*Log[(1 + Sqrt[-((e*x^{2/3})/d])])/2]*Log[1 + (e*x^{2/3})/d] + Log[1 + (e*x^{2/3})/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((e*x^{2/3})/d])/2])/Sqrt[-((e*x^{2/3})/d]))/(3*e) + (b^3*n^3*(624*d*e*x^{2/3} - 16*e^2*x^{4/3} + 624*d^{3/2}*Sqrt[d + e*x^{2/3}])*Sqrt[(e*x^{2/3})/(d + e*x^{2/3})]*ArcSin[Sqrt[d]/Sqrt[d + e*x^{2/3}]] + 432*d^2*Sqrt[(e*x^{2/3})/(d + e*x^{2/3})]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^{2/3})]) + 144*d^2*Sqrt[-((e*x^{2/3})/d])*Log[(1 + Sqrt[-((e*x^{2/3})/d])])/2]^2 - 288*d*e*x^{2/3}*Log[d + e*x^{2/3}] + 24*e^2*x^{4/3}*Log[d + e*x^{2/3}] + 288*Sqrt[-d]*d*Sqrt[e*x^{2/3}]*ArcTanh[Sqrt[e*x^{2/3}]/Sqrt[-d]]*Log[d + e*x^{2/3}] + 216*d^2*Sqrt[(e*x^{2/3})/(d + e*x^{2/3})]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^{2/3})])*Log[d + e*x^{2/3}] + 54*d*e*x^{2/3}*Log[d + e*x^{2/3}]^2 - 18*e^2*x^{4/3}*Log[d + e*x^{2/3}]^2 + 54*d^{3/2}*Sqrt[d + e*x^{2/3}])*Sqrt[(e*x^{2/3})/(d + e*x^{2/3})]*ArcSin[Sqrt[d]/Sqrt[d + e*x^{2/3}]]*Log[d + e*x^{2/3}]^2 + 9*e^2*x^{4/3}*Log[d + e*x^{2/3}]^3 + 288*(-d)^{3/2}*Sqrt[e*x^{2/3}]*ArcTanh[Sqrt[e*x^{2/3}]/Sqrt[-d]]*Log[1 + (e*x^{2/3})/d] - 288*d^2*Sqrt[-((e*x^{2/3})/d])*Log[(1 + Sqrt[-((e*x^{2/3})/d])])/2]*Log[1 + (e*x^{2/3})/d] + 72*d^2*Sqrt[-((e*x^{2/3})/d])*Log[1 + (e*x^{2/3})/d]^2 - 288*d^2*Sqrt[-((e*x^{2/3})/d])*PolyLog[2, 1/2 - Sqrt[-((e*x^{2/3})/d])/2])]/(9*e^2*x^{1/3}))
 \end{aligned}$$

Integral number [487]

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^2} dx$$

[B] time = 10.3119 (sec), size = 1158 ,normalized size = 48.25

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3/x^2,x]

[Out]

```
(-6*b*e*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d*x
^(1/3)) - (6*b*e^(3/2)*n*ArcTan[(Sqrt[e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d +
e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2/d^(3/2) - (3*b*n*Log[d + e*x^(
2/3)]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2/x - (a -
b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^3/x + (3*b^2*e*n^2*(a
- b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])*((-16*Sqrt[d + e*x^(
2/3)]*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)
])/d^(3/2) - (8*Log[d + e*x^(2/3)])/d - (2*Log[d + e*x^(2/3)]^2)/(e*x^(2/3)
) - (8*Sqrt[e*x^(2/3)]*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*(Log[d + e*x^(2/3)
] - Log[1 + (e*x^(2/3))/d]))/(-d)^(3/2) - (2*Sqrt[-((e*x^(2/3))/d)]*(2*Log[
(1 + Sqrt[-((e*x^(2/3))/d])]/2)^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3))/d])]/2]*L
og[1 + (e*x^(2/3))/d] + Log[1 + (e*x^(2/3))/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[
-((e*x^(2/3))/d)]/2])/d)/(2*x^(1/3)) + (b^3*n^3*(48*Sqrt[-d^2]*e*Sqrt[(e*
x^(2/3))/(d + e*x^(2/3))]*x^(2/3)*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {
3/2, 3/2, 3/2}, d/(d + e*x^(2/3))] - 12*d*Sqrt[-d^2]*(-((e*x^(2/3))/d))^(3/
2)*Log[(1 + Sqrt[-((e*x^(2/3))/d])]/2)^2 - 24*Sqrt[d]*(e*x^(2/3))^(3/2)*Arc
Tanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*Log[d + e*x^(2/3)] + 24*Sqrt[-d^2]*e*Sqrt[(e
*x^(2/3))/(d + e*x^(2/3))]*x^(2/3)*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2,
3/2}, d/(d + e*x^(2/3))]*Log[d + e*x^(2/3)] - 6*Sqrt[-d^2]*e*x^(2/3)*Log[d
+ e*x^(2/3)]^2 + 6*Sqrt[-d]*(d + e*x^(2/3))^(3/2)*((e*x^(2/3))/(d + e*x^(2
/3)))^(3/2)*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]*Log[d + e*x^(2/3)]^2 + (d^(
5/2)*Log[d + e*x^(2/3)]^3)/Sqrt[-d] + 24*Sqrt[d]*(e*x^(2/3))^(3/2)*ArcTanh[
Sqrt[e*x^(2/3)]/Sqrt[-d]]*Log[1 + (e*x^(2/3))/d] + 24*d*Sqrt[-d^2]*(-((e*x^
(2/3))/d))^(3/2)*Log[(1 + Sqrt[-((e*x^(2/3))/d])]/2]*Log[1 + (e*x^(2/3))/d]
- 6*d*Sqrt[-d^2]*(-((e*x^(2/3))/d))^(3/2)*Log[1 + (e*x^(2/3))/d]^2 + 24*d*
Sqrt[-d^2]*(-((e*x^(2/3))/d))^(3/2)*PolyLog[2, 1/2 - Sqrt[-((e*x^(2/3))/d)]
```

/2)))/(Sqrt[-d]*d^(3/2)*x)

Integral number [488]

$$\int \frac{(a + b \log(c(d + ex^{2/3})^n))^3}{x^4} dx$$

[B] time = 11.6616 (sec), size = 1385 ,normalized size = 57.71

result too large to display

[In] Integrate[(a + b*Log[c*(d + e*x^(2/3))^n])^3/x^4,x]

[Out]

((-60*b*e*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d*x^(7/3)) + (84*b*e^2*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d^2*x^(5/3)) - (140*b*e^3*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d^3*x) + (420*b*e^4*n*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/(d^4*x^(1/3)) + (420*b*e^(9/2)*n*ArcTan[(Sqrt[e]*x^(1/3))/Sqrt[d]]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/d^(9/2) - (210*b*n*Log[d + e*x^(2/3)]*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^2)/x^3 - (70*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])^3)/x^3 - (2*b^3*n^3*(1376*e^3*(d + e*x^(2/3))^(3/2)*((e*x^(2/3))/(d + e*x^(2/3)))^(3/2)*x^2*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]] + Sqrt[d]*(16*e^3*(d - 15*e*x^(2/3))*x^2 + 8*(3*d^2*e^2*x^(4/3) - 12*d*e^3*x^2 + 71*e^4*x^(8/3))*Log[d + e*x^(2/3)] + (30*d^3*e*x^(2/3) - 42*d^2*e^2*x^(4/3) + 70*d*e^3*x^2 - 210*e^4*x^(8/3))*Log[d + e*x^(2/3)]^2 + 35*d^4*Log[d + e*x^(2/3)]^3) + 210*e^4*Sqrt[(e*x^(2/3))/(d + e*x^(2/3))]*x^(8/3)*(8*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2, 1/2}, {3/2, 3/2, 3/2}, d/(d + e*x^(2/3))] + Log[d + e*x^(2/3)]*(4*Sqrt[d]*HypergeometricPFQ[{1/2, 1/2, 1/2}, {3/2, 3/2}, d/(d + e*x^(2/3))] + Sqrt[d + e*x^(2/3)]*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]*Log[d + e*x^(2/3)])) + (352*d^(3/2)*e^4*x^(8/3)*(4*Sqrt[e*x^(2/3)]*ArcTanh[Sqrt[e*x^(2/3)]/Sqrt[-d]]*(Log[d + e*x^(2/3)] - Log[1 + (e*x^(2/3))/d]) - Sqrt[-d]*Sqrt[-((e*x^(2/3))/d)]*(2*Log[(1 + Sqrt[-((e*x^(2/3))/d)])/2]^2 - 4*Log[(1 + Sqrt[-((e*x^(2/3))/d)])/2]*Log[1 + (e*x^(2/3))/d] + Log[1 + (e*x^(2/3))/d]^2 - 4*PolyLog[2, 1/2 - Sqrt[-((e*x^(2/3))/d)])/2])))/(-d)^(3/2)))/(d^(9/2)*x^3) + b^2*e^5*n^2*x^(1/3)*(a - b*n*Log[d + e*x^(2/3)] + b*Log[c*(d + e*x^(2/3))^n])*((2816*ArcSin[Sqrt[d]/Sqrt[d + e*x^(2/3)]]

$$\frac{2/3]]/(d^{(9/2)*\text{Sqrt}[d + e*x^{(2/3)}]*\text{Sqrt}[(e*x^{(2/3)})/(d + e*x^{(2/3)})]) - (120*\text{Log}[d + e*x^{(2/3)}])/(d*e^4*x^{(8/3)}) - (210*\text{Log}[d + e*x^{(2/3)}]^2)/(e^5*x^{(10/3)}) + (24*(-2 + 7*\text{Log}[d + e*x^{(2/3)}]))/(d^2*e^3*x^2) - (8*(-24 + 35*\text{Log}[d + e*x^{(2/3)}]))/(d^3*e^2*x^{(4/3)}) + (8*(-142 + 105*\text{Log}[d + e*x^{(2/3)}]))/(d^4*e*x^{(2/3)}) - (840*\text{ArcTanh}[\text{Sqrt}[e*x^{(2/3)}]/\text{Sqrt}[-d]]*(\text{Log}[d + e*x^{(2/3)}] - \text{Log}[1 + (e*x^{(2/3)})/d]))/((-d)^{(9/2)*\text{Sqrt}[e*x^{(2/3)}]) - (210*(2*\text{Log}[(1 + \text{Sqrt}[-((e*x^{(2/3)})/d])]/2]^2 - 4*\text{Log}[(1 + \text{Sqrt}[-((e*x^{(2/3)})/d])]/2]*\text{Log}[1 + (e*x^{(2/3)})/d] + \text{Log}[1 + (e*x^{(2/3)})/d]^2 - 4*\text{PolyLog}[2, 1/2 - \text{Sqrt}[-((e*x^{(2/3)})/d])]/2]))/(d^5*\text{Sqrt}[-((e*x^{(2/3)})/d)])/210$$

Integral number [528]

$$\int x^2 \left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3 dx$$

[B] time = 29.2948 (sec), size = 5975 ,normalized size = 248.96

Result too large to show

[In] Integrate[x^2*(a + b*Log[c*(d + e/x^(2/3))^n])^3,x]

[Out]

Result too large to show

Integral number [530]

$$\int \frac{\left(a + b \log \left(c \left(d + \frac{e}{x^{2/3}} \right)^n \right) \right)^3}{x^2} dx$$

[B] time = 19.5599 (sec), size = 5502 ,normalized size = 229.25

Result too large to show

[In] Integrate[(a + b*Log[c*(d + e/x^(2/3))^n])^3/x^2,x]

[Out]

Result too large to show

Integral number [531]

$$\int \frac{(a + b \log(c(d + \frac{e}{x^{2/3}})^n))^3}{x^4} dx$$

[B] time = 27.1934 (sec), size = 6328 ,normalized size = 263.67

Result too large to show

[In] Integrate[(a + b*Log[c*(d + e/x^(2/3))^n])^3/x^4,x]

[Out]

Result too large to show

4.6 Test file Number [189]

Mathematica

Integral number [332]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 1.04909 (sec), size = 394 ,normalized size = 17.13

$$-i\text{RootSum}\left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \&, \frac{2b \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx) - \#1}\right) - ib \log(1 - 2\cos(c+dx)\#1 + \#1^2)}{\#1 + \#1^2}\right]$$

[In] Integrate[Cos[c + d*x]^4/(a + b*Sin[c + d*x]^3)^2,x]

[Out]

((-I)*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6 &
, (2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] - I*b*Log[1 - 2*Cos[c + d*x]
]*#1 + #1^2] + (4*I)*a*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + 2*a*Lo
g[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 + 12*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x]

- #1]]*#1^2 - (6*I)*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (4*I)*a*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - 2*a*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 + 2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - I*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) &] + (24*Cos[c + d*x]*(a + b*Sin[c + d*x]))/(4*a + 3*b*Sin[c + d*x] - b*Sin[3*(c + d*x)])))/(18*a*b*d)

Integral number [333]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 0.932892 (sec), size = 273 ,normalized size = 11.87

$$-i\text{RootSum} \left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \&, \frac{2 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) - i \log(1-2 \cos(c+dx)\#1+\#1^2)}{\dots} \right]$$

[In] Integrate[Cos[c + d*x]^2/(a + b*Sin[c + d*x]^3)^2,x]

[Out]

((-I)*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6 & , (2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] - I*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] + 12*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 - (6*I)*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 + 2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - I*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) &] + (12*Sin[2*(c + d*x)])/(4*a + 3*b*Sin[c + d*x] - b*Sin[3*(c + d*x)])))/(18*a*d)

Integral number [334]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 0.76423 (sec), size = 502 ,normalized size = 35.86

$$i\text{RootSum} \left[-ib+3ib\#1^2+8a\#1^3-3ib\#1^4+ib\#1^6 \&, \frac{2b^2 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) - ib^2 \log(1-2 \cos(c+dx)\#1+\#1^2) + 4iab \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right)}{\dots} \right]$$

[In] Integrate[(a + b*Sin[c + d*x]^3)^(-2),x]

[Out]

```
((I*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6 & ,
(2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] - I*b^2*Log[1 - 2*Cos[c + d*
*x]*#1 + #1^2] + (4*I)*a*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + 2*
a*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2])*#1 - 24*a^2*ArcTan[Sin[c + d*x]/(Cos[
c + d*x] - #1)]*#1^2 + 12*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2
+ (12*I)*a^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2])*#1^2 - (6*I)*b^2*Log[1 - 2*
Cos[c + d*x]*#1 + #1^2])*#1^2 - (4*I)*a*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x]
- #1)]*#1^3 - 2*a*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2])*#1^3 + 2*b^2*ArcTan[S
in[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - I*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #
1^2])*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) & ])/(a^2 - b^2) - (12
*b*Cos[c + d*x]*(-3*a + a*Cos[2*(c + d*x)] + 2*b*Sin[c + d*x]))/(a - b)*(a
+ b)*(4*a + 3*b*Sin[c + d*x] - b*Sin[3*(c + d*x)])))/(18*a*d)
```

Integral number [335]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 2.53403 (sec), size = 845 ,normalized size = 36.74

$$ib\text{RootSum} \left[-ib + 3ib\#1^2 + 8a\#1^3 - 3ib\#1^4 + ib\#1^6 \&, \frac{16a^2b \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) + 2b^3 \arctan\left(\frac{\sin(c+dx)}{\cos(c+dx)-\#1}\right) - 8ia^2b \log\left(1 - 2\cos(c+dx)\#1 + \#1^2\right)}{(a - b)(a + b)(4a + 3b\sin(c + dx) - b\sin(3(c + dx)))} \right]$$

[In] Integrate[Sec[c + d*x]^2/(a + b*Sin[c + d*x]^3)^2,x]

[Out]

```
(((-I)*b*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1^6
& , (16*a^2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] + 2*b^3*ArcTan[Sin[
c + d*x]/(Cos[c + d*x] - #1)] - (8*I)*a^2*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^
2] - I*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] + (20*I)*a^3*ArcTan[Sin[c + d*
x]/(Cos[c + d*x] - #1)]*#1 + (16*I)*a*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x]
- #1)]*#1 + 10*a^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2])*#1 + 8*a*b^2*Log[1 -
```

```

2*Cos[c + d*x]*#1 + #1^2]*#1 - 120*a^2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x]
- #1)]*#1^2 + 12*b^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 + (60*I)
*a^2*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (6*I)*b^3*Log[1 - 2*Cos[c +
d*x]*#1 + #1^2]*#1^2 - (20*I)*a^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]
*#1^3 - (16*I)*a*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - 10*a^3
*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 - 8*a*b^2*Log[1 - 2*Cos[c + d*x]*#1
+ #1^2]*#1^3 + 16*a^2*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 + 2*
b^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - (8*I)*a^2*b*Log[1 - 2*Co
s[c + d*x]*#1 + #1^2]*#1^4 - I*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)
/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) & ])/(a*(a^2 - b^2)^2) + (18*Sin
[(c + d*x)/2])/((a + b)^2*(Cos[(c + d*x)/2] - Sin[(c + d*x)/2])) + (18*Sin[
(c + d*x)/2])/((a - b)^2*(Cos[(c + d*x)/2] + Sin[(c + d*x)/2])) + (12*b*Cos
[c + d*x]*(-2*a^3 - 7*a*b^2 + 3*a*b^2*Cos[2*(c + d*x)] + 2*b*(2*a^2 + b^2)*
Sin[c + d*x]))/(a*(a - b)^2*(a + b)^2*(4*a + 3*b*Sin[c + d*x] - b*Sin[3*(c
+ d*x)])))/(18*d)

```

Integral number [336]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 2.4768 (sec), size = 1158 ,normalized size = 50.35

result too large to display

[In] Integrate[Sec[c + d*x]^4/(a + b*Sin[c + d*x]^3)^2,x]

[Out]

```

((4*I)*b^2*RootSum[(-I)*b + (3*I)*b*#1^2 + 8*a*#1^3 - (3*I)*b*#1^4 + I*b*#1
^6 & , (14*a^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)] + 74*a^2*b^2*ArcTan
[Sin[c + d*x]/(Cos[c + d*x] - #1)] + 2*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x]
- #1)] - (7*I)*a^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] - (37*I)*a^2*b^2*Log
[1 - 2*Cos[c + d*x]*#1 + #1^2] - I*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2] +
(144*I)*a^3*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + (36*I)*a*b^3*Ar
cTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1 + 72*a^3*b*Log[1 - 2*Cos[c + d*x]
*#1 + #1^2]*#1 + 18*a*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1 - 180*a^4*Ar
cTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^2 - 372*a^2*b^2*ArcTan[Sin[c + d*
x]/(Cos[c + d*x] - #1)]*#1^2 + 12*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #

```

1)]*#1^2 + (90*I)*a^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 + (186*I)*a^2*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (6*I)*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^2 - (144*I)*a^3*b*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - (36*I)*a*b^3*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^3 - 72*a^3*b*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 - 18*a*b^3*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^3 + 14*a^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 + 74*a^2*b^2*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 + 2*b^4*ArcTan[Sin[c + d*x]/(Cos[c + d*x] - #1)]*#1^4 - (7*I)*a^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4 - (37*I)*a^2*b^2*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4 - I*b^4*Log[1 - 2*Cos[c + d*x]*#1 + #1^2]*#1^4)/(b*#1 - (4*I)*a*#1^2 - 2*b*#1^3 + b*#1^5) &] + (3*Sec[c + d*x]^3*(48*a^5*b + 568*a^3*b^3 + 14*a*b^5 + (78*a^5*b + 606*a^3*b^3 + 81*a*b^5)*Cos[2*(c + d*x)] + 18*a*b^3*(4*a^2 + b^2)*Cos[4*(c + d*x)] + 2*a^5*b*cos[6*(c + d*x)] - 30*a^3*b^3*cos[6*(c + d*x)] - 17*a*b^5*cos[6*(c + d*x)] + 48*a^6*sin[c + d*x] - 244*a^4*b^2*sin[c + d*x] + 20*a^2*b^4*sin[c + d*x] - 4*b^6*sin[c + d*x] + 16*a^6*sin[3*(c + d*x)] - 194*a^4*b^2*sin[3*(c + d*x)] - 86*a^2*b^4*sin[3*(c + d*x)] - 6*b^6*sin[3*(c + d*x)] - 14*a^4*b^2*sin[5*(c + d*x)] - 74*a^2*b^4*sin[5*(c + d*x)] - 2*b^6*sin[5*(c + d*x)]))/(4*a + 3*b*sin[c + d*x] - b*sin[3*(c + d*x)]))/(72*a*(a^2 - b^2)^3*d)

Fricas

Integral number [332]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 8.86472 (sec), size = 9984 ,normalized size = 434.09

Too large to display

[In] integrate(cos(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

[Out]

-1/36*(sqrt(2)*sqrt(1/2)*(a^2*b*d - (a*b^2*d*cos(d*x + c)^2 - a*b^2*d)*sin(d*x + c))*sqrt((((1/2)^(1/3)*(I*sqrt(3) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^10*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^10*b^8*d^6))^(1/3) + 6/(a^2*b^2*d^2)))*a^2*b^2*d^2 + 3*sqrt(1/3)*a^2*b^2*d^2*sqrt(-

$$\begin{aligned}
 &^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + \\
 &6/(a^2*b^2*d^2)^2*a^4*b^4*d^4 - 12*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - \\
 &64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4)) * \sqrt{(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 3*\sqrt{1/3}*a^2*b^2*d^2*\sqrt{-((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4)) - 18)/(a^2*b^2*d^2)) + 3/4*\sqrt{1/3}*((a^9*b^5 + 8*a^7*b^7)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*d^4*\sin(d*x + c) - 6*(a^7*b^3 + 8*a^5*b^5)*d^2*\sin(d*x + c))*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^4*b^4*d^4 - 12*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4)) - 9*(a^5*b + 8*a^3*b^3)*\sin(d*x + c)) + \sqrt{2}*\sqrt{1/2}*(a^2*b*d - (a*b^2*d*\cos(d*x + c))^2 - a*b^2*d)*\sin(d*x + c))*\sqrt{(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 - 3*\sqrt{1/3}*a^2*b^2*d^2*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^4*b^4*d^4 - 12*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4)) - 18)/(a^2*b^2*d^2))*\log(-1/4*(a^9*b^5 + 8*a^7*b^7)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*d^4*\sin(d*x + c) + 2*a^6 - 96*a^2*b^4 + 256*b^6 + 3*(a^7*b^3 + 8*a^5*b^5)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*d^2*\sin(d*x + c) + 1/4*\sqrt{2})*\sqrt{1/2})*(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2)*a^2*b^2*d^2 + 36)/(a^4*b^4*d^4))
 \end{aligned}$$

$$\begin{aligned}
& \sqrt[3]{1/2} + 6/(a^2 b^2 d^2)^{1/3} a^9 b^7 d^5 \cos(dx + c) - 16(a^7 b^5 - a^5 b^7) \sqrt[3]{1/2} \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) d^3 \cos(dx + c) + 4(a^7 b + 7a^5 b^3 - 8a^3 b^5) d \cos(dx + c) + 3 \sqrt[3]{1/2} \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^9 b^7 d^5 \cos(dx + c) - 2(a^7 b^5 + 8a^5 b^7) d^3 \cos(dx + c) \sqrt{-((I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^4 b^4 d^4 - 12 \sqrt[3]{1/2} \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^2 b^2 d^2 + 36/(a^4 b^4 d^4) \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^2 b^2 d^2 - 3 \sqrt[3]{1/2} a^2 b^2 d^2 \sqrt{-((I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^4 b^4 d^4 - 12 \sqrt[3]{1/2} \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^2 b^2 d^2 + 36/(a^4 b^4 d^4) - 18/(a^2 b^2 d^2) - 3/4 \sqrt[3]{1/2} \sqrt[3]{(a^9 b^5 + 8a^7 b^7) \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) d^4 \sin(dx + c) - 6(a^7 b^3 + 8a^5 b^5) d^2 \sin(dx + c) \sqrt{-((I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^4 b^4 d^4 - 12 \sqrt[3]{1/2} \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) a^2 b^2 d^2 + 36/(a^4 b^4 d^4) - 9(a^5 b + 8a^3 b^3) \sin(dx + c) - 12b \cos(dx + c) \sin(dx + c) + 18(a^2 b d - (a b^2 d \cos(dx + c))^2 - a b^2 d) \sin(dx + c) \sqrt{-1/162 (I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& - 1/27 (a^2 b^2 d^2) \log(1/2 (a^9 b^5 + 8a^7 b^7) \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}} \\
& + 6/(a^2 b^2 d^2) d^4 \sin(dx + c) + 2a^6 - 96a^2 b^4 + 256b^6 - 6(a^7 b^3 + 8a^5 b^5) \sqrt[3]{(I \sqrt{3} + 1)(27/(a^6 b^6 d^6) - (a^2 - 4b^2)^3/(a^{10} b^8 d^6) - (a^6 + 15a^4 b^2 + 48a^2 b^4 - 64b^6)/(a^{10} b^8 d^6))^{1/3}}
\end{aligned}$$

$$\begin{aligned}
 & *b^8*d^6)^{(1/3)} + 6/(a^2*b^2*d^2))*d^2*\sin(d*x + c) + 18*(a^5*b + 8*a^3*b^3)*\sin(d*x + c) - 9*(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))^{2*a^9*b^7*d^5*\cos(d*x + c) - 16*(a^7*b^5 - a^5*b^7)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))*d^3*\cos(d*x + c) - 2*(a^7*b - 38*a^5*b^3 + 64*a^3*b^5)*d*\cos(d*x + c))*\sqrt{-1/162*(1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} - 1/27/(a^2*b^2*d^2)) - 18*(a^2*b*d - (a*b^2*d*\cos(d*x + c))^2 - a*b^2*d)*\sin(d*x + c))*\sqrt{-1/162*(1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} - 1/27/(a^2*b^2*d^2))*\log(-1/2*(a^9*b^5 + 8*a^7*b^7)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))^{2*d^4*\sin(d*x + c) - 2*a^6 + 96*a^2*b^4 - 256*b^6 + 6*(a^7*b^3 + 8*a^5*b^5)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))*d^2*\sin(d*x + c) - 18*(a^5*b + 8*a^3*b^3)*\sin(d*x + c) - 9*(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))^{2*a^9*b^7*d^5*\cos(d*x + c) - 16*(a^7*b^5 - a^5*b^7)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} + 6/(a^2*b^2*d^2))*d^3*\cos(d*x + c) - 2*(a^7*b - 38*a^5*b^3 + 64*a^3*b^5)*d*\cos(d*x + c))*\sqrt{-1/162*(1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*(27/(a^6*b^6*d^6) - (a^2 - 4*b^2)^3/(a^{10}*b^8*d^6) - (a^6 + 15*a^4*b^2 + 48*a^2*b^4 - 64*b^6)/(a^{10}*b^8*d^6))^{(1/3)} - 1/27/(a^2*b^2*d^2)) - 12*a*\cos(d*x + c))/(a^2*b*d - (a*b^2*d*\cos(d*x + c))^2 - a*b^2*d)*\sin(d*x + c))
 \end{aligned}$$

Integral number [333]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 2.85272 (sec), size = 36403 ,normalized size = 1582.74

Too large to display

$$\begin{aligned}
& - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2)^2*d^4*\sin(d*x + c) + 1/81*(a^{11}*b - 14*a^9*b^3 + 56*a^7*b^5 - 64*a^5*b^7)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2*\sin(d*x + c) + 1/78732*\sqrt{2/3}*\sqrt{1/6)*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^5*\cos(d*x + c) + 162*(9*a^{11}*b^3 - 56*a^9*b^5 + 96*a^7*b^7 - 64*a^5*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^3*\cos(d*x + c) + 52488*(2*a^9*b - 19*a^7*b^3 + 28*a^5*b^5 - 32*a^3*b^7)*d*\cos(d*x + c) - 3*\sqrt{1/3)*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)
\end{aligned}$$

$$\begin{aligned}
& 4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - \\
& 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - \\
& 162/(a^4d^2 - a^2b^2d^2))*d^5*\cos(dx + c) - 324*(3a^{11}b^3 - 31a^9b^5 + 60a^7b^7 - 32a^5b^9)*d^3*\cos(dx + c))*\text{sqrt}(-((a^8b^2 - 2a^6b^4 + a^4b^6)*((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2) / (-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))^2*d^4 + 324*(a^4b^2 - a^2b^4)*((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2) / (-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))*d^2 + 314928a^2 - 393660b^2)/((a^8b^2 - 2a^6b^4 + a^4b^6)*d^4))*\text{sqrt}(-((a^4 - a^2b^2)*((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2) / (-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))*d^2 + 3*\text{sqrt}(1/3)*(a^4 - a^2b^2)*d^2*\text{sqrt}(-((a^8b^2 - 2a^6b^4 + a^4b^6)*((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2) / (-1
\end{aligned}$$

$$\begin{aligned}
& /1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^4*b^2 - a^2*b^4)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4)) + 486)/((a^4 - a^2*b^2)*d^2)) + 1/4374*\sqrt{1/3)*((3*a^{13}*b^3 - 31*a^{11}*b^5 + 60*a^9*b^7 - 32*a^7*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4*\sin(dx + c) + 162*(a^{11}*b - 5*a^9*b^3 - 28*a^7*b^5 + 32*a^5*b^7)*d^2*\sin(dx + c))*\sqrt(-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^4*b^2 - a^2*b^4)*((-I*\sqrt{3} + 1)*(3
\end{aligned}$$

$$\begin{aligned}
& 4*d^4*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/10 \\
& 62882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6) \\
&)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^3*\cos(d*x + c) + 52488*(2*a^9*b - \\
& 19*a^7*b^3 + 28*a^5*b^5 - 32*a^3*b^7)*d*\cos(d*x + c) + 3*\sqrt{1/3}*((a^{15}*b \\
& ^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 \\
& - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 \\
& + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4 \\
& *d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/106 \\
& 2882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)) \\
& ^{(1/3)} - 6561*(I*\sqrt{3}) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12} \\
& *b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - \\
& a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a \\
& ^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^ \\
& 4*d^2 - a^2*b^2*d^2))*d^5*\cos(d*x + c) - 324*(3*a^{11}*b^3 - 31*a^9*b^5 + 60* \\
& a^7*b^7 - 32*a^5*b^9)*d^3*\cos(d*x + c))*\sqrt{-((a^8*b^2 - 2*a^6*b^4 + a^4*b \\
& ^6)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2 \\
& *d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d \\
& ^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/53 \\
& 1441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + \\
& 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3}) + 1)*(-1/106 \\
& 2882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/(\\
& (a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - \\
& a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - \\
& b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^ \\
& 4*b^2 - a^2*b^4)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4* \\
& d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 \\
& - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2 \\
& *d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - \\
& 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3}) \\
& + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) \\
& + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/53144 \\
& 1/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64 \\
& *b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^ \\
& 2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4))*\sqrt{- \\
& ((a^4 - a^2*b^2)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4* \\
& d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 \\
& - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2 \\
& *d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - \\
& 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3})
\end{aligned}$$

$$\begin{aligned}
& + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) \\
& + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/53144 \\
& 1/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64 \\
& *b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6)^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^ \\
& 2 - 3*\sqrt{1/3}*(a^4 - a^2*b^2)*d^2*\sqrt{-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)* \\
& ((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2 \\
&)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) \\
& + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441 \\
& /((a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64* \\
& b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3}) + 1)*(-1/1062882 \\
& *(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6 \\
& *b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2* \\
& b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2 \\
&)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^4*b^ \\
& 2 - a^2*b^4)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 \\
& - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a \\
& ^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2 \\
&)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80* \\
& a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3}) + 1 \\
&)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1 \\
& /118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a \\
& ^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6 \\
&)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 + \\
& 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4)) + 486)/((a^ \\
& 4 - a^2*b^2)*d^2)) - 1/4374*\sqrt{1/3}*((3*a^{13}*b^3 - 31*a^{11}*b^5 + 60*a^9*b \\
& ^7 - 32*a^7*b^9)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4* \\
& d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 \\
& - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2 \\
& *d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - \\
& 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3}) \\
& + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) \\
& + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/53144 \\
& 1/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64 \\
& *b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^ \\
& 4*\sin(d*x + c) + 162*(a^{11}*b - 5*a^9*b^3 - 28*a^7*b^5 + 32*a^5*b^7)*d^2*\sin \\
& (d*x + c))*\sqrt{-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*\sqrt{3}) + 1)*(3/(a^6 \\
& *b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 1 \\
& 6*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 \\
& - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^}
\end{aligned}$$

$$\begin{aligned}
& 3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}* \\
& b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b \\
& ^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(\\
& a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a \\
& ^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} \\
& - 162/(a^4*d^2 - a^2*b^2*d^2))^{2*d^4} + 324*(a^4*b^2 - a^2*b^4)*((-I*\sqrt{3}) \\
& + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/106 \\
& 2882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/(\\
& (a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - \\
& a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - \\
& b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a \\
& ^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a \\
& ^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + \\
& 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4 \\
& *d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 314928*a^2 - 393660*b^2)/ \\
& ((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4)) - 2*(17*a^7*b - 164*a^5*b^3 + 224*a^ \\
& 3*b^5)*\sin(d*x + c)) - 3*\sqrt{2/3}*\sqrt{1/6}*(a^2*d - (a*b*d*\cos(d*x + c)^2 \\
& - a*b*d)*\sin(d*x + c))*\sqrt{-((a^4 - a^2*b^2)*((-I*\sqrt{3} + 1)*(3/(a^6*b^ \\
& 2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a \\
& ^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a \\
& ^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + \\
& 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4 \\
& *d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4) \\
& /((a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4 \\
& *d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 \\
& + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 1 \\
& 62/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 3*\sqrt{1/3}*(a^4 - a^2*b^2)*d^2*\sqrt{-((a \\
& ^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d \\
& ^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/ \\
& (a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4* \\
& d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + \\
& 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 65 \\
& 61*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - \\
& a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^ \\
& 2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80 \\
& *a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2 \\
& *b^2*d^2))^{2*d^4} + 324*(a^4*b^2 - a^2*b^4)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^ \\
& 4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b \\
& ^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b
\end{aligned}$$

$$\begin{aligned}
&^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6) \\
&)^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 162/((a^4*d^2 - a^2*b^2*d^2))*d^2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4) + 486)/((a^4 - a^2*b^2)*d^2))*\log(-4*a^8 - 80*a^6*b^2 + 1216*a^4*b^4 - 2816*a^2*b^6 + 2048*b^8 + 1/13122*(3*a^{13}*b^3 - 31*a^{11}*b^5 + 60*a^9*b^7 - 32*a^7*b^9))*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4*\sin(d*x + c) - 1/81*(a^{11}*b - 14*a^9*b^3 + 56*a^7*b^5 - 64*a^5*b^7))*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2*\sin(d*x + c) + 1/78732*\sqrt{2/3)*\sqrt{1/6))*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9))*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^5*\cos(d*x + c) + 162*(9*a^{11}*b^3 - 56*a^9*b^5 + 96*a^7*b^7 - 64*a^5*b^9))*((-I*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& t(3) + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 \\
& / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 1180 \\
& 98 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^ \\
& 2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a \\
& ^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (I * \text{sqrt}(3) + 1) * (-1 / 1062882 * (a^4 - \\
& 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 \\
& - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2) \\
& ^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} \\
& * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2)) * d^3 * \cos(dx + c) + 52488 * (2 \\
& * a^9 * b - 19 * a^7 * b^3 + 28 * a^5 * b^5 - 32 * a^3 * b^7) * d * \cos(dx + c) - 3 * \text{sqrt}(1/3) \\
& * ((a^{15} * b^3 + a^{13} * b^5 - 10 * a^{11} * b^7 + 8 * a^9 * b^9) * ((-I * \text{sqrt}(3) + 1) * (3 / (a^6 \\
& * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 1 \\
& 6 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 \\
& - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^ \\
& ^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * \\
& b^4 * d^6))^{(1/3)} - 6561 * (I * \text{sqrt}(3) + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b \\
& ^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (\\
& a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a \\
& ^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} \\
& - 162 / (a^4 * d^2 - a^2 * b^2 * d^2)) * d^5 * \cos(dx + c) - 324 * (3 * a^{11} * b^3 - 31 * a^9 * \\
& b^5 + 60 * a^7 * b^7 - 32 * a^5 * b^9) * d^3 * \cos(dx + c)) * \text{sqrt}(-((a^8 * b^2 - 2 * a^6 * b^ \\
& 4 + a^4 * b^6) * ((-I * \text{sqrt}(3) + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 \\
& - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a \\
& ^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2 \\
&)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * \\
& a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (I * \text{sqrt}(3) + 1 \\
&) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 \\
& / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a \\
& ^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6 \\
&)) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2)) ^2 * d^4 \\
& + 324 * (a^4 * b^2 - a^2 * b^4) * ((-I * \text{sqrt}(3) + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) \\
& - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{1 \\
& 2} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 \\
& - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * \\
& a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (\\
& I * \text{sqrt}(3) + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} \\
& * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) \\
& - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 \\
& * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 ^2
\end{aligned}$$

$$\begin{aligned}
& *d^2)) *d^2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4) \\
&)) *sqrt(-((a^4 - a^2*b^2)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) \\
& - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^1 \\
& 2*b^4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 \\
& - a^2*b^2*d^2))) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28* \\
& a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 6561*(\\
& I*sqrt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10 \\
& *b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2))) \\
& - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2 \\
& *b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 162/(a^4*d^2 - a^2*b^2 \\
& *d^2)) *d^2 + 3*sqrt(1/3)*(a^4 - a^2*b^2)*d^2*sqrt(-((a^8*b^2 - 2*a^6*b^4 + \\
& a^4*b^6)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^ \\
& 2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10* \\
& b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2))) - \\
& 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2* \\
& b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 6561*(I*sqrt(3) + 1)*(- \\
& 1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10*b^6*d^6) + 1/118 \\
& 098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2))) - 1/531441/(a^4*d \\
& ^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((\\
& a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 32 \\
& 4*(a^4*b^2 - a^2*b^4)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/ \\
& (a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^ \\
& 4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^ \\
& 2*b^2*d^2))) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4* \\
& b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 6561*(I*sq \\
& rt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10*b^6 \\
& *d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2))) - 1/ \\
& 531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 \\
& + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 162/(a^4*d^2 - a^2*b^2*d^2) \\
&)) *d^2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4)) + \\
& 486)/((a^4 - a^2*b^2)*d^2)) - 1/4374*sqrt(1/3)*((3*a^13*b^3 - 31*a^11*b^5 + \\
& 60*a^9*b^7 - 32*a^7*b^9)*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) \\
& - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^1 \\
& 2*b^4*d^6 - a^10*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 \\
& - a^2*b^2*d^2))) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28* \\
& a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^10*b^4*d^6))^(1/3) - 6561*(\\
& I*sqrt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^12*b^4*d^6 - a^10 \\
& *b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2))) \\
& - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2
\end{aligned}$$

$$\begin{aligned}
& *b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2 \\
& *d^2))*d^4*\sin(d*x + c) + 162*(a^{11}*b - 5*a^9*b^3 - 28*a^7*b^5 + 32*a^5*b^7 \\
&)*d^2*\sin(d*x + c))*\sqrt{-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*\sqrt{3}) + 1 \\
&)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882 \\
& *(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6 \\
& *b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2* \\
& b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2) \\
&)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b \\
& ^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b \\
& ^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1 \\
& 062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6 \\
&))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^4*b^2 - a^2*b^4)*((- \\
& I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2) \\
&)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1 \\
& /118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a \\
& ^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6 \\
&)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a \\
& ^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^ \\
& 2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2 \\
& *d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2 \\
& *a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 314928*a^2 - 393 \\
& 660*b^2)/((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*d^4)) + 2*(17*a^7*b - 164*a^5*b^3 \\
& + 224*a^3*b^5)*\sin(d*x + c)) + 3*\sqrt{2/3}*\sqrt{1/6}*(a^2*d - (a*b*d*\cos(d \\
& *x + c))^2 - a*b*d)*\sin(d*x + c))*\sqrt{-((a^4 - a^2*b^2)*((-I*\sqrt{3}) + 1)*(\\
& 3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a \\
& ^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^ \\
& 2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2 \\
& *d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2 \\
& *a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 \\
& + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4* \\
& d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062 \\
& 882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(\\
& 1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 - 3*\sqrt{1/3}*(a^4 - a^2*b^2)*d^2* \\
& \sqrt{-((a^8*b^2 - 2*a^6*b^4 + a^4*b^6)*((-I*\sqrt{3}) + 1)*(3/(a^6*b^2*d^4 - \\
& a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + \\
& 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d \\
& ^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/10628 \\
& 82*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(\\
& 1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b
\end{aligned}$$

$$\begin{aligned}
&^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a \\
&^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4 \\
&*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4* \\
&d^2 - a^2*b^2*d^2))^2*d^4 + 324*(a^4*b^2 - a^2*b^4)*((-I*sqrt(3) + 1)*(3/(a \\
&^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - \\
&16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^ \\
&4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2 \\
&)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{1 \\
&0*b^4*d^6))^{(1/3)} - 6561*(I*sqrt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64 \\
&*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4) \\
&*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882* \\
&(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3 \\
&)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 314928*a^2 - 393660*b^2)/((a^8*b^2 - \\
&2*a^6*b^4 + a^4*b^6)*d^4)) + 486)/((a^4 - a^2*b^2)*d^2))*log(-4*a^8 - 80*a \\
&^6*b^2 + 1216*a^4*b^4 - 2816*a^2*b^6 + 2048*b^8 + 1/13122*(3*a^{13}*b^3 - 31* \\
&a^{11}*b^5 + 60*a^9*b^7 - 32*a^7*b^9))*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4 \\
&*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64 \\
&*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4) \\
&*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882* \\
&(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3 \\
&)} - 6561*(I*sqrt(3) + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4* \\
&d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2* \\
&b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^ \\
&2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 \\
&- a^2*b^2*d^2))^2*d^4*\sin(d*x + c) - 1/81*(a^{11}*b - 14*a^9*b^3 + 56*a^7*b^ \\
&5 - 64*a^5*b^7))*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d \\
&^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 \\
&- a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2* \\
&d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - \\
&80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*sqrt(3) \\
&+ 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) \\
&+ 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441 \\
&/((a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64* \\
&b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2 \\
&*\sin(d*x + c) - 1/78732*sqrt(2/3)*sqrt(1/6)*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11} \\
&*b^7 + 8*a^9*b^9))*((-I*sqrt(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4 \\
&*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^ \\
&6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^ \\
&2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2
\end{aligned}$$

$$\begin{aligned}
& - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{1/3} - 6561(I\sqrt{3} \\
&) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6 \\
&) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/5314 \\
& 41/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 6 \\
& 4b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{1/3} - 162/(a^4d^2 - a^2b^2d^2))^2 \\
& *d^5*\cos(dx + c) + 162*(9a^{11}b^3 - 56a^9b^5 + 96a^7b^7 - 64a^5b^9) \\
& *((-I\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2 \\
&)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) \\
& + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/53144 \\
& 1/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64 \\
& *b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{1/3} - 6561*(I\sqrt{3} + 1)*(-1/106288 \\
& 2*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^ \\
& 6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2 \\
& *b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^ \\
& 2)^2a^{10}b^4d^6))^{1/3} - 162/(a^4d^2 - a^2b^2d^2))*d^3*\cos(dx + c) + \\
& 52488*(2a^9b - 19a^7b^3 + 28a^5b^5 - 32a^3b^7)*d*\cos(dx + c) + 3* \\
& \sqrt{1/3}*((a^{15}b^3 + a^{13}b^5 - 10a^{11}b^7 + 8a^9b^9)*((-I\sqrt{3} + 1 \\
&)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882 \\
& *(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6 \\
& *b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2* \\
& b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2 \\
&)^2a^{10}b^4d^6))^{1/3} - 6561*(I\sqrt{3} + 1)*(-1/1062882*(a^4 - 16a^2*b \\
& ^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b \\
& ^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1 \\
& 062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6 \\
&))^{1/3} - 162/(a^4d^2 - a^2b^2d^2))*d^5*\cos(dx + c) - 324*(3a^{11}b^3 \\
& - 31a^9b^5 + 60a^7b^7 - 32a^5b^9)*d^3*\cos(dx + c))*\sqrt{-((a^8b^2 - \\
& 2a^6b^4 + a^4b^6)*((-I\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/ \\
& (a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^ \\
& 4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^ \\
& 2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4* \\
& b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{1/3} - 6561*(I\sqrt{ \\
& 3} + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6 \\
& *d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/ \\
& 531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 \\
& + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{1/3} - 162/(a^4d^2 - a^2b^2d^2) \\
&))^2*d^4 + 324*(a^4b^2 - a^2b^4)*((-I\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4* \\
& b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64* \\
& b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*
\end{aligned}$$

$$\begin{aligned}
& (a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(\\
& a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} \\
& - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d \\
& ^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b \\
& ^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 \\
& - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 \\
& - a^2b^2d^2))*d^2 + 314928a^2 - 393660b^2)/((a^8b^2 - 2a^6b^4 + a^4b \\
& ^6)*d^4))*\sqrt{-((a^4 - a^2b^2)*((-I*\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b \\
& ^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b \\
& ^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(\\
& a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(\\
& a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} \\
& - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d \\
& ^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b \\
& ^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 \\
& - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 \\
& - a^2b^2d^2))*d^2 - 3*\sqrt{1/3}*(a^4 - a^2b^2)*d^2*\sqrt{-((a^8b^2 - 2a \\
& ^6b^4 + a^4b^6)*((-I*\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4 \\
& *d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d \\
& ^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b \\
& ^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 \\
& - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 6561*(I*\sqrt{3} \\
&) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6 \\
&) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/5314 \\
& 41/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 6 \\
& 4b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))^2 \\
& *d^4 + 324*(a^4b^2 - a^2b^4)*((-I*\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b^4d \\
& ^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b^4) \\
& /((a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4 \\
& *d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 \\
& + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 6 \\
& 561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - \\
& a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2 \\
& ^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 8 \\
& 0a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 - a^ \\
& 2b^2d^2))*d^2 + 314928a^2 - 393660b^2)/((a^8b^2 - 2a^6b^4 + a^4b^6) \\
& *d^4) + 486)/((a^4 - a^2b^2)*d^2)) + 1/4374*\sqrt{1/3}*((3a^{13}b^3 - 31a \\
& ^{11}b^5 + 60a^9b^7 - 32a^7b^9)*((-I*\sqrt{3} + 1)*(3/(a^6b^2d^4 - a^4b \\
& ^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b
\end{aligned}$$

$$\begin{aligned}
& b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)* \\
& (a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(\\
& a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} \\
& - 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 \\
& - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2 \\
& d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 \\
& - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6)^{(1/3)} - 162/(a^4d^2 \\
& - a^2b^2d^2))*d^4*\sin(dx + c) + 162*(a^{11}b - 5a^9b^3 - 28a^7b^5 + 3 \\
& 2a^5b^7)*d^2*\sin(dx + c))*\text{sqrt}(-((a^8b^2 - 2a^6b^4 + a^4b^6)*((-I*\text{sq} \\
& \text{rt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(- \\
& 1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118 \\
& 098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d \\
& ^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((\\
& a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - \\
& 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 \\
& - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2) \\
&)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{1 \\
& 0}b^4d^6))^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))^2*d^4 + 324*(a^4b^2 - a^2 \\
& *b^4)*((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4b^4d^4) - 1/(a^4d^2 - a^2b^ \\
& ^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6 \\
& *d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/ \\
& 531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 \\
& + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 6561*(I*\text{sqrt}(3) + 1)*(-1/1 \\
& 062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098 \\
& /((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 \\
& - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 \\
& - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 - a^2b^2d^2))*d^2 + 314928* \\
& a^2 - 393660*b^2)/((a^8b^2 - 2a^6b^4 + a^4b^6)*d^4)) + 2*(17a^7*b - 16 \\
& 4a^5*b^3 + 224a^3*b^5)*\sin(dx + c)) + 2*\text{sqrt}(1/2)*(a^2*d - (a*b*d*\cos(d* \\
& x + c)^2 - a*b*d)*\sin(dx + c))*\text{sqrt}((-I*\text{sqrt}(3) + 1)*(3/(a^6b^2d^4 - a^4 \\
& *b^4d^4) - 1/(a^4d^2 - a^2b^2d^2)^2)/(-1/1062882*(a^4 - 16a^2b^2 + 64 \\
& *b^4)/(a^{12}b^4d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4) \\
& *(a^4d^2 - a^2b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882* \\
& (a^6 + 28a^4b^2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} \\
&) - 6561*(I*\text{sqrt}(3) + 1)*(-1/1062882*(a^4 - 16a^2b^2 + 64b^4)/(a^{12}b^4* \\
& d^6 - a^{10}b^6d^6) + 1/118098/((a^6b^2d^4 - a^4b^4d^4)*(a^4d^2 - a^2* \\
& b^2d^2)) - 1/531441/(a^4d^2 - a^2b^2d^2)^3 + 1/1062882*(a^6 + 28a^4b^ \\
& 2 - 80a^2b^4 + 64b^6)/((a^2 - b^2)^2a^{10}b^4d^6))^{(1/3)} - 162/(a^4d^2 \\
& - a^2b^2d^2))*\log(2a^8 + 40a^6b^2 - 608a^4b^4 + 1408a^2b^6 - 1024
\end{aligned}$$

$$\begin{aligned}
& *b^8 + 1/13122*(3*a^{13}*b^3 - 31*a^{11}*b^5 + 60*a^9*b^7 - 32*a^7*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 162/(a^4*d^2 - a^2*b^2*d^2)^2*d^4*\sin(d*x + c) - 1/81*(a^{11}*b - 14*a^9*b^3 + 56*a^7*b^5 - 64*a^5*b^7)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 162/(a^4*d^2 - a^2*b^2*d^2)*d^2*\sin(d*x + c) - 1/118098*\sqrt{1/2)*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 162/(a^4*d^2 - a^2*b^2*d^2)^2*d^5*\cos(d*x + c) + 162*(9*a^{11}*b^3 - 56*a^9*b^5 + 96*a^7*b^7 - 64*a^5*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{1/3} - 162/(a^4*d^2 - a^2*b^2*d^2)
\end{aligned}$$

$$\begin{aligned}
&^2)) * d^3 * \cos(dx + c) + 26244 * (7 * a^9 * b + 46 * a^7 * b^3 - 184 * a^5 * b^5 + 128 * a^3 \\
&* b^7) * d * \cos(dx + c) * \sqrt{(-I * \sqrt{3} + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) \\
&- 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (\\
&I * \sqrt{3} + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) \\
&- 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2) + 2 * (17 * a^7 * b - 164 * a^5 * b^3 + 224 * a^3 * b^5) * \sin(dx + c) - 2 * \sqrt{1 / 2} * (a^2 * d - (a * b * d * \cos(dx + c))^2 - a * b * d) * \sin(dx + c) * \sqrt{(-I * \sqrt{3} + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (I * \sqrt{3} + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2) * \log(-2 * a^8 - 40 * a^6 * b^2 + 608 * a^4 * b^4 - 1408 * a^2 * b^6 + 1024 * b^8 - 1 / 13122 * (3 * a^{13} * b^3 - 31 * a^{11} * b^5 + 60 * a^9 * b^7 - 32 * a^7 * b^9) * ((-I * \sqrt{3} + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (I * \sqrt{3} + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2) * 2 * d^4 * \sin(dx + c) + 1 / 81 * (a^{11} * b - 14 * a^9 * b^3 + 56 * a^7 * b^5 - 64 * a^5 * b^7) * ((-I * \sqrt{3} + 1) * (3 / (a^6 * b^2 * d^4 - a^4 * b^4 * d^4) - 1 / (a^4 * d^2 - a^2 * b^2 * d^2)^2) / (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 6561 * (I * \sqrt{3} + 1) * (-1 / 1062882 * (a^4 - 16 * a^2 * b^2 + 64 * b^4) / (a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) + 1 / 118098 / ((a^6 * b^2 * d^4 - a^4 * b^4 * d^4) * (a^4 * d^2 - a^2 * b^2 * d^2)) - 1 / 531441 / (a^4 * d^2 - a^2 * b^2 * d^2)^3 + 1 / 1062882 * (a^6 + 28 * a^4 * b^2 - 80 * a^2 * b^4 + 64 * b^6) / ((a^2 - b^2)^2 * a^{10} * b^4 * d^6))^{(1/3)} - 162 / (a^4 * d^2 - a^2 * b^2 * d^2) *
\end{aligned}$$

$$\begin{aligned}
& ^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2) \\
& ^2*a^{10}*b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))*d^2*\sin(d*x + c) - 1 \\
& /118098*\sqrt{1/2)*((a^{15}*b^3 + a^{13}*b^5 - 10*a^{11}*b^7 + 8*a^9*b^9)*((-I*\sqrt{3} \\
& t(3) + 1)*(3/(a^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1 \\
& /1062882*(a^4 - 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/1180 \\
& 98/((a^6*b^2*d^4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^ \\
& 2 - a^2*b^2*d^2)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a \\
& ^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - \\
& 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 \\
& - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2) \\
& ^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10} \\
& *b^4*d^6))^{(1/3)} - 162/(a^4*d^2 - a^2*b^2*d^2))^2*d^5*\cos(d*x + c) + 162*(9 \\
& *a^{11}*b^3 - 56*a^9*b^5 + 96*a^7*b^7 - 64*a^5*b^9)*((-I*\sqrt{3} + 1)*(3/(a^6 \\
& *b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - 1 \\
& 6*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 \\
& - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^ \\
& 3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10} \\
& *b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64*b \\
& ^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4)* \\
& a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882*(a \\
& ^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} \\
& - 162/(a^4*d^2 - a^2*b^2*d^2))*d^3*\cos(d*x + c) + 26244*(7*a^9*b + 46*a^7*b \\
& ^3 - 184*a^5*b^5 + 128*a^3*b^7)*d*\cos(d*x + c))*\sqrt{(-I*\sqrt{3} + 1)*(3/(a \\
& ^6*b^2*d^4 - a^4*b^4*d^4) - 1/(a^4*d^2 - a^2*b^2*d^2)^2)/(-1/1062882*(a^4 - \\
& 16*a^2*b^2 + 64*b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^ \\
& 4 - a^4*b^4*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2) \\
&)^3 + 1/1062882*(a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{1 \\
& 0}*b^4*d^6))^{(1/3)} - 6561*(I*\sqrt{3} + 1)*(-1/1062882*(a^4 - 16*a^2*b^2 + 64 \\
& *b^4)/(a^{12}*b^4*d^6 - a^{10}*b^6*d^6) + 1/118098/((a^6*b^2*d^4 - a^4*b^4*d^4) \\
& *(a^4*d^2 - a^2*b^2*d^2)) - 1/531441/(a^4*d^2 - a^2*b^2*d^2)^3 + 1/1062882* \\
& (a^6 + 28*a^4*b^2 - 80*a^2*b^4 + 64*b^6)/((a^2 - b^2)^2*a^{10}*b^4*d^6))^{(1/3)} \\
&) - 162/(a^4*d^2 - a^2*b^2*d^2)) - 2*(17*a^7*b - 164*a^5*b^3 + 224*a^3*b^5) \\
& *\sin(d*x + c) + 108*\cos(d*x + c)*\sin(d*x + c))/(a^2*d - (a*b*d*\cos(d*x + c) \\
&)^2 - a*b*d)*\sin(d*x + c))
\end{aligned}$$

Integral number [334]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 7.64422 (sec), size = 70185 ,normalized size = 5013.21

Too large to display

[In] integrate(1/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

[Out]

$$\begin{aligned}
 & -1/108*(36*a*b*\cos(d*x + c)^3 + 36*b^2*\cos(d*x + c)*\sin(d*x + c) - \sqrt{2/3}) \\
 & * \sqrt{1/2}*((a^4 - a^2*b^2)*d - ((a^3*b - a*b^3)*d*\cos(d*x + c)^2 - (a^3*b \\
 & - a*b^3)*d)*\sin(d*x + c))*\sqrt{-(1458*a^4 + 486*a^2*b^2 - 486*b^4 - (a^8 - \\
 & 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6))*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4) \\
 & ^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2 - (27*a^2 - \\
 & 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062 \\
 & 882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4 \\
 & *d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2 \\
 & *d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)* \\
 & (27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4) \\
 & *(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375 \\
 & *a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2) \\
 & ^6*a^{10}*d^6))^{1/3} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 \\
 & ^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - \\
 & 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
 & - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10} \\
 & *d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 \\
 & + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 24 \\
 & 60*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{1/3} + 16 \\
 & 2*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6 \\
 & *d^2))*d^2 + 3*\sqrt{1/3}*(a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2*\sqrt{ \\
 & -(236196*a^8 - 3691656*a^6*b^2 + 4382748*a^4*b^4 - 1942056*a^2*b^6 + 306180 \\
 & *b^8 + (a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b \\
 & ^{10} + a^4*b^{12}))*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - \\
 & 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 \\
 & - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 43 \\
 & 2*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6* \\
 & d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
 & *d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2) \\
 & /((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6 \\
 & *b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b
 \end{aligned}$$

$$\begin{aligned}
&^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} \\
&+ 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2d^4 - 324*(3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10})*((-I*\sqrt{3} + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^2)/((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12})*d^4)))/((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6)*d^2))*log(364500a^{10}b - 601884a^8b^3 + 412016a^6b^5 - 146112a^4b^7 + 26880a^2b^9 - 2048b^{11} + 1/1458*(594a^{19} - 2417a^{17}b^2 + 3931a^{15}b^4 - 3263a^{13}b^6 + 1463a^{11}b^8 - 340a^9b^{10} + 32a^7b^{12})*((-I*\sqrt{3} + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4
\end{aligned}$$

$$\begin{aligned}
& 573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * \\
& d^6)^{(1/3)} + 2187 * (I * \sqrt{3} + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * \\
& (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3 \\
& * a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - \\
& 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6)^{(1/3)} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^{2 * d^4 * \sin(dx + c) - 1/9 * (5589a^{15} - 4842a^{13}b^2 - 190a^{11}b^4 + 1470a^9b^6 - 552a^7b^8 + 64a^5b^{10}) * ((-I * \sqrt{3} + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6)^{(1/3)} + 2187 * (I * \sqrt{3} + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6)^{(1/3)} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) * d^2 * \sin(dx + c) + 1/8748 * \sqrt{2/3} * \sqrt{1/2} * ((378a^{21} - 1463a^{19}b^2 + 2215a^{17}b^4 - 1655a^{15}b^6 + 635a^{13}b^8 - 118a^{11}b^{10} + 8a^9b^{12}) * ((-I * \sqrt{3} + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6)^{(1/3)} + 2187 * (I * \sqrt{3} + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 -
\end{aligned}$$

$$\begin{aligned}
& 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 \\
& - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/393 \\
& 66*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3 \\
& a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4 \\
&)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2*d^5*\cos(dx + \\
& c) - 54*(8829a^{17} + 84a^{15}b^2 - 12778a^{13}b^4 + 10894a^{11}b^6 - 4104a^9 \\
& b^8 + 784a^7b^{10} - 64a^5b^{12})*((-I*\sqrt{3}) + 1)*(3*(3a^4 + a^2b^2 \\
& - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 \\
& - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/1 \\
& 062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12} \\
& b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6 \\
& b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4 \\
&)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
&)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3 \\
& 375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2) \\
& ^6a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729a^4 - 432a^2 \\
& b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) \\
& - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& ^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a \\
& ^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2 \\
& d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + \\
& 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6)^{(1/3)} + \\
& 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
& b^6d^2))*d^3*\cos(dx + c) + 2916*(48843a^{13} - 62721a^{11}b^2 + 31549a^9 \\
& b^4 - 7866a^7b^6 + 1032a^5b^8 - 64a^3b^{10})*d*\cos(dx + c) + 3*\sqrt{1} \\
& /3)*((378a^{21} - 1463a^{19}b^2 + 2215a^{17}b^4 - 1655a^{15}b^6 + 635a^{13}b^8 \\
& - 118a^{11}b^{10} + 8a^9b^{12})*((-I*\sqrt{3}) + 1)*(3*(3a^4 + a^2b^2 - b^4 \\
&)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - \\
& 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/10628 \\
& 82*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4 \\
& d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2 \\
& b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(\\
& 27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)* \\
& (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 \\
& - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6 \\
& a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729a^4 - 432a^2b^2 \\
& + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1
\end{aligned}$$

$$\begin{aligned}
& /19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - \\
& a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 \\
& + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 246 \\
& 0*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6)^{(1/3)} + 162 \\
& *(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6 \\
& *d^2))*d^5*\cos(dx + c) - 54*(1377*a^17 - 5565*a^15*b^2 + 8953*a^13*b^4 - 7 \\
& 303*a^11*b^6 + 3186*a^9*b^8 - 712*a^7*b^10 + 64*a^5*b^12)*d^3*\cos(dx + c)) \\
& *sqrt(-(236196*a^8 - 3691656*a^6*b^2 + 4382748*a^4*b^4 - 1942056*a^2*b^6 + \\
& 306180*b^8 + (a^16 - 6*a^14*b^2 + 15*a^12*b^4 - 20*a^10*b^6 + 15*a^8*b^8 - \\
& 6*a^6*b^10 + a^4*b^12))*(-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a \\
& ^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 \\
& - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10 \\
& *b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3 \\
& *a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 1 \\
& 1*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573 \\
& *a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6 \\
&))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4 \\
&))/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3* \\
& a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d \\
& ^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^ \\
& 8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b \\
& ^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 \\
& - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6)^{(1/3)} + 162*(3*a^4 + \\
& a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2*d \\
& ^4 - 324*(3*a^12 - 8*a^10*b^2 + 5*a^8*b^4 + 3*a^6*b^6 - 4*a^4*b^8 + a^2*b^1 \\
& 0)*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 \\
& + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^10*d^4 - 3*a^8*b^2*d^4 \\
& + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64 \\
& *b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683 \\
& *(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^ \\
& ^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - \\
& 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a \\
& ^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4* \\
& b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6)^{(1/3)} + 2187*(I*s \\
& qrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14 \\
& *b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)
\end{aligned}$$

$$\begin{aligned}
&^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) \\
&+ 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)*d^2/((a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b^{10} + a^4*b^{12})*d^4)) \\
&*\sqrt{-(1458*a^4 + 486*a^2*b^2 - 486*b^4 - (a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))} \\
&+ 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))} \\
&+ 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)*d^2 + 3*\sqrt{1/3}*(a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2*\sqrt{-(236196*a^8 - 3691656*a^6*b^2 + 4382748*a^4*b^4 - 1942056*a^2*b^6 + 306180*b^8 + (a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b^{10} + a^4*b^{12})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))} \\
&+ 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 -
\end{aligned}$$

$$\begin{aligned}
& 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 \\
& - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& *(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/106288 \\
& 2*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 \\
& - b^2)^6a^{10}d^6)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2) - 324*(3a^{12} - 8a^{10}b^2 + 5 \\
& *a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10})*((-I*\sqrt{3}) + 1)*(3*(3a^4 + \\
& a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 \\
& - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
&))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2* \\
& b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& *(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/10 \\
& 62882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/(\\
& (a^2 - b^2)^6a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729a^4 \\
& - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10} \\
& b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4 \\
& b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11* \\
& b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3 \\
& *a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^ \\
& ^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6) \\
&)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)*d^2/((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 1 \\
& 5a^8b^8 - 6a^6b^{10} + a^4b^{12})*d^4))/((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6) \\
& *d^2)) + 1/486*\sqrt{1/3}*((594a^{19} - 2417a^{17}b^2 + 3931a^{15}b^4 \\
& - 3263a^{13}b^6 + 1463a^{11}b^8 - 340a^9b^{10} + 32a^7b^{12})*((-I*\sqrt{3}) \\
& + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 \\
& d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 \\
& - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^ \\
& ^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39 \\
& 366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + \\
& 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
& *b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^ \\
& ^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/ \\
& 1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{1 \\
& 2}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3* \\
& a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b
\end{aligned}$$

$$\begin{aligned}
 &^4) * (27 * a^2 - 11 * b^2) / ((a^{10} * d^4 - 3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * \\
 &d^4) * (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2)) + 1 / 1062882 * (\\
 &3375 * a^8 - 4573 * a^6 * b^2 + 2460 * a^4 * b^4 - 624 * a^2 * b^6 + 64 * b^8) * b^2 / ((a^2 - \\
 &b^2)^6 * a^{10} * d^6))^{(1/3)} + 162 * (3 * a^4 + a^2 * b^2 - b^4) / (a^8 * d^2 - 3 * a^6 * b^2 * \\
 &d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2)) * d^4 * \sin(d * x + c) + 162 * (243 * a^{15} - 909 * \\
 &a^{13} * b^2 + 1301 * a^{11} * b^4 - 879 * a^9 * b^6 + 276 * a^7 * b^8 - 32 * a^5 * b^{10}) * d^2 * \sin \\
 &(d * x + c) * \sqrt{-(236196 * a^8 - 3691656 * a^6 * b^2 + 4382748 * a^4 * b^4 - 1942056 * \\
 &a^2 * b^6 + 306180 * b^8 + (a^{16} - 6 * a^{14} * b^2 + 15 * a^{12} * b^4 - 20 * a^{10} * b^6 + 15 * \\
 &a^8 * b^8 - 6 * a^6 * b^{10} + a^4 * b^{12})) * ((-I * \sqrt{3}) + 1) * (3 * (3 * a^4 + a^2 * b^2 - b^4) \\
 &^2 / (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2))^2 - (27 * a^2 - \\
 &11 * b^2) / (a^{10} * d^4 - 3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * d^4)) / (-1 / 10628 \\
 &82 * (729 * a^4 - 432 * a^2 * b^2 + 64 * b^4) / (a^{16} * d^6 - 3 * a^{14} * b^2 * d^6 + 3 * a^{12} * b^4 \\
 &* d^6 - a^{10} * b^6 * d^6) - 1 / 19683 * (3 * a^4 + a^2 * b^2 - b^4)^3 / (a^8 * d^2 - 3 * a^6 * b^2 \\
 &^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2))^3 + 1 / 39366 * (3 * a^4 + a^2 * b^2 - b^4) * (\\
 &27 * a^2 - 11 * b^2) / ((a^{10} * d^4 - 3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * d^4) * \\
 &(a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2)) + 1 / 1062882 * (3375 * \\
 &a^8 - 4573 * a^6 * b^2 + 2460 * a^4 * b^4 - 624 * a^2 * b^6 + 64 * b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6))^{(1/3)} + 2187 * (I * \sqrt{3}) + 1) * (-1 / 1062882 * (729 * a^4 - 432 * a^2 * b^2 \\
 &+ 64 * b^4) / (a^{16} * d^6 - 3 * a^{14} * b^2 * d^6 + 3 * a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) - 1 \\
 &/ 19683 * (3 * a^4 + a^2 * b^2 - b^4)^3 / (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - \\
 &a^2 * b^6 * d^2))^3 + 1 / 39366 * (3 * a^4 + a^2 * b^2 - b^4) * (27 * a^2 - 11 * b^2) / ((a^{10} * \\
 &d^4 - 3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * d^4) * (a^8 * d^2 - 3 * a^6 * b^2 * d^2 \\
 &+ 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2)) + 1 / 1062882 * (3375 * a^8 - 4573 * a^6 * b^2 + 246 \\
 &0 * a^4 * b^4 - 624 * a^2 * b^6 + 64 * b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6))^{(1/3)} + 162 \\
 &* (3 * a^4 + a^2 * b^2 - b^4) / (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 \\
 &* d^2))^2 * d^4 - 324 * (3 * a^{12} - 8 * a^{10} * b^2 + 5 * a^8 * b^4 + 3 * a^6 * b^6 - 4 * a^4 * b^8 \\
 &+ a^2 * b^{10}) * ((-I * \sqrt{3}) + 1) * (3 * (3 * a^4 + a^2 * b^2 - b^4)^2 / (a^8 * d^2 - 3 * a^6 \\
 &b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2))^2 - (27 * a^2 - 11 * b^2) / (a^{10} * d^4 - \\
 &3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * d^4)) / (-1 / 1062882 * (729 * a^4 - 432 * a^2 * b^2 \\
 &+ 64 * b^4) / (a^{16} * d^6 - 3 * a^{14} * b^2 * d^6 + 3 * a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) \\
 &- 1 / 19683 * (3 * a^4 + a^2 * b^2 - b^4)^3 / (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 \\
 &^2 - a^2 * b^6 * d^2))^3 + 1 / 39366 * (3 * a^4 + a^2 * b^2 - b^4) * (27 * a^2 - 11 * b^2) / ((a \\
 &^{10} * d^4 - 3 * a^8 * b^2 * d^4 + 3 * a^6 * b^4 * d^4 - a^4 * b^6 * d^4) * (a^8 * d^2 - 3 * a^6 * b^2 \\
 &* d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2)) + 1 / 1062882 * (3375 * a^8 - 4573 * a^6 * b^2 + \\
 &2460 * a^4 * b^4 - 624 * a^2 * b^6 + 64 * b^8) * b^2 / ((a^2 - b^2)^6 * a^{10} * d^6))^{(1/3)} + \\
 &2187 * (I * \sqrt{3}) + 1) * (-1 / 1062882 * (729 * a^4 - 432 * a^2 * b^2 + 64 * b^4) / (a^{16} * d^ \\
 &6 - 3 * a^{14} * b^2 * d^6 + 3 * a^{12} * b^4 * d^6 - a^{10} * b^6 * d^6) - 1 / 19683 * (3 * a^4 + a^2 * \\
 &b^2 - b^4)^3 / (a^8 * d^2 - 3 * a^6 * b^2 * d^2 + 3 * a^4 * b^4 * d^2 - a^2 * b^6 * d^2))^3 + 1 / \\
 &39366 * (3 * a^4 + a^2 * b^2 - b^4) * (27 * a^2 - 11 * b^2) / ((a^{10} * d^4 - 3 * a^8 * b^2 * d^4
 \end{aligned}$$

$$\begin{aligned}
& + 3a^6b^4d^4 - a^4b^6d^4)(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a \\
& ^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& b^8 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - \\
& b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^2)/((a^{16} - \\
& 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12} \\
& 2)*d^4)) + 6*(34263a^{11} - 48249a^9b^2 + 26165a^7b^4 - 6460a^5b^6 + 6 \\
& 08a^3b^8)*\sin(dx + c)) + \text{sqrt}(2/3)*\text{sqrt}(1/2)*((a^4 - a^2b^2)*d - ((a^3b \\
& b - ab^3)*d*\cos(dx + c))^2 - (a^3b - ab^3)*d)*\sin(dx + c))*\text{sqrt}(-(1458* \\
& a^4 + 486a^2b^2 - 486b^4 - (a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6))*((-I* \\
& \text{sqrt}(3) + 1)*(3*(3a^4 + a^2b^2 - b^4))^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4 \\
& b^4*d^2 - a^2b^6d^2))^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3* \\
& a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a \\
& ^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 \\
& + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 \\
& + a^2b^2 - b^4)*(27a^2 - 11b^2))/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - \\
& 2*d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& ^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 62 \\
& 4a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I*\text{sqrt}(3) + \\
& 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8* \\
& d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2 \\
& *b^2 - b^4)*(27a^2 - 11b^2))/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - \\
& a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1 \\
& 062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/ \\
& ((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3* \\
& a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^2 - 3*\text{sqrt}(1/3)*(a^8 - 3a^6* \\
& b^2 + 3a^4b^4 - a^2b^6)*d^2*\text{sqrt}(-(236196a^8 - 3691656a^6b^2 + 438274 \\
& 8a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2 + 15a^{12}b^4 \\
& - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}))*((-I*\text{sqrt}(3) + 1)*(3*(\\
& 3a^4 + a^2b^2 - b^4))^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6 \\
& *d^2))^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4 \\
& *b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14} \\
& b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^ \\
& 3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^ \\
& 4 + a^2b^2 - b^4)*(27a^2 - 11b^2))/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4 \\
& *d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) \\
&) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^ \\
& 8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I*\text{sqrt}(3) + 1)*(-1/1062882*(\\
& 729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6
\end{aligned}$$

$$\begin{aligned}
& - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 \\
& ^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 \\
& ^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8 \\
& *d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 \\
& - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10} \\
& *d^6)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4 \\
& ^4b^4d^2 - a^2b^6d^2)^2*d^4 - 324*(3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3 \\
& *a^6b^6 - 4a^4b^8 + a^2b^{10})*((-I*\sqrt{3}) + 1)*(3*(3a^4 + a^2b^2 - b^4) \\
& ^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - \\
& 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/10628 \\
& 82*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4 \\
& *d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2 \\
& ^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(\\
& 27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)* \\
& (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375* \\
& a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6 \\
& a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729a^4 - 432a^2b^2 \\
& + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1 \\
& /19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - \\
& a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10} \\
& d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 246 \\
& 0a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6)^{(1/3)} + 162 \\
& *(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6 \\
& *d^2))*d^2/((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - \\
& 6a^6b^{10} + a^4b^{12})*d^4))/((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6)*d^2) \\
&)*\log(364500a^{10}b - 601884a^8b^3 + 412016a^6b^5 - 146112a^4b^7 + 26 \\
& 880a^2b^9 - 2048b^{11} + 1/1458*(594a^{19} - 2417a^{17}b^2 + 3931a^{15}b^4 \\
& - 3263a^{13}b^6 + 1463a^{11}b^8 - 340a^9b^{10} + 32a^7b^{12})*((-I*\sqrt{3}) \\
& + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4 \\
& *d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 \\
& - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 \\
& - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39 \\
& 366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + \\
& 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
& *b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/ \\
& 1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{1
\end{aligned}$$

$$\begin{aligned}
& 2*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3* \\
& a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b \\
& ^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6* \\
& d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(\\
& 3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - \\
& b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2* \\
& d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2*d^4*\sin(d*x + c) - 1/9*(5589*a^{15} - 4 \\
& 842*a^{13}*b^2 - 190*a^{11}*b^4 + 1470*a^9*b^6 - 552*a^7*b^8 + 64*a^5*b^{10})*((- \\
& I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^ \\
& 4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + \\
& 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/ \\
& (a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^ \\
& 4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2 \\
&)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8* \\
& b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
& *d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - \\
& 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3} \\
& + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d \\
& ^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^ \\
& 8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a \\
& ^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 \\
& - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1 \\
& /1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^ \\
& 2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)*d^2*\sin(d*x + c) - 1/8748*\sqrt[3]{ \\
& (2/3)*\sqrt{1/2})*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17}*b^4 - 1655*a^{15}*b^6 \\
& + 635*a^{13}*b^8 - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*\sqrt{3} + 1)*(3*(3*a^4 + \\
& a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 \\
& - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^ \\
& 4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 \\
& + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8* \\
& d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2 \\
& *b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - \\
& a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1 \\
& 062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/ \\
& ((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 \\
& - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10} \\
& *b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3* \\
& a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11
\end{aligned}$$

$$\begin{aligned}
& *b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - \\
& 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 \\
& + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6) \\
&)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2))^{2d^5}\cos(dx + c) - 54*(8829a^{17} + 84a^{15}b^2 - 1277 \\
& 8a^{13}b^4 + 10894a^{11}b^6 - 4104a^9b^8 + 784a^7b^{10} - 64a^5b^{12})*((\\
& -I\sqrt{3} + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2))^{2d^5} - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + \\
& 3a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4) \\
& /((a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 \\
& + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) \\
&)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8 \\
& b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - \\
& a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - \\
& 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I\sqrt{3} \\
&) + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + \\
& a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 \\
& - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + \\
& 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b \\
& ^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - \\
& 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^{2d^3}\cos(dx + c) + 2916*(488 \\
& 43a^{13} - 62721a^{11}b^2 + 31549a^9b^4 - 7866a^7b^6 + 1032a^5b^8 - 64 \\
& a^3b^{10})*d\cos(dx + c) - 3*\sqrt{1/3}*((378a^{21} - 1463a^{19}b^2 + 2215a^{17}b^4 \\
& - 1655a^{15}b^6 + 635a^{13}b^8 - 118a^{11}b^{10} + 8a^9b^{12})*((-I\sqrt{3} \\
& + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2))^{2d^3} - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 \\
& - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 \\
& - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - \\
& a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 \\
& + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I\sqrt{3} + \\
& 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 \\
& - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a
\end{aligned}$$

$$\begin{aligned}
&^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/10 \\
&62882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/(\\
&(a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a \\
&^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^5*\cos(d*x + c) - 54*(1377*a^{17} \\
&- 5565*a^{15}*b^2 + 8953*a^{13}*b^4 - 7303*a^{11}*b^6 + 3186*a^9*b^8 - 712*a^7*b \\
&^{10} + 64*a^5*b^{12})*d^3*\cos(d*x + c))*\sqrt{-(236196*a^8 - 3691656*a^6*b^2 + \\
&4382748*a^4*b^4 - 1942056*a^2*b^6 + 306180*b^8 + (a^{16} - 6*a^{14}*b^2 + 15*a^ \\
&^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b^{10} + a^4*b^{12}))*((-I*\sqrt{3}) + 1 \\
&)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a \\
&^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 \\
&- a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3 \\
&*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - \\
&b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366 \\
&*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a \\
&^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^ \\
&6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + \\
&64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/106 \\
&2882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b \\
&^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6 \\
&*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4) \\
&*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4 \\
&)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(337 \\
&5*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2 \\
&)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 \\
&+ 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2*d^4 - 324*(3*a^{12} - 8*a^{10}*b^2 + 5*a^8*b \\
&^4 + 3*a^6*b^6 - 4*a^4*b^8 + a^2*b^{10})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^ \\
&2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27* \\
&a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1 \\
&/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^ \\
&^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3 \\
&*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - \\
&b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6 \\
&*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882* \\
&(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - \\
&b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432* \\
&a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^ \\
&6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
&*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/(\\
&(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b
\end{aligned}$$

$$\begin{aligned}
&^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 \\
&+ 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} \\
&+ 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a \\
&^2*b^6*d^2))*d^2)/((a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8* \\
&b^8 - 6*a^6*b^{10} + a^4*b^{12})*d^4)))*sqrt(-(1458*a^4 + 486*a^2*b^2 - 486*b^4 \\
&- (a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^ \\
&2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - \\
&(27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)) \\
&/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + \\
&3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 \\
&- 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^ \\
&2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4 \\
&*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062 \\
&882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a \\
&^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - \\
&432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^ \\
&6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4 \\
&*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^ \\
&2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a \\
&^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6 \\
&*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(\\
&1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
&- a^2*b^6*d^2))*d^2 - 3*sqrt(1/3)*(a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)* \\
&d^2*sqrt(-(236196*a^8 - 3691656*a^6*b^2 + 4382748*a^4*b^4 - 1942056*a^2*b^6 \\
&+ 306180*b^8 + (a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 \\
&- 6*a^6*b^{10} + a^4*b^{12})*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a \\
&^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2) \\
&/ (a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729 \\
&*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - \\
&a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 \\
&+ 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 \\
&- 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^ \\
&2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4 \\
&573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}* \\
&d^6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64* \\
&b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683* \\
&(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^ \\
&6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3 \\
&*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^
\end{aligned}$$

$$\begin{aligned}
& 4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^{2*d^4 - 324*(3*a^12 - 8*a^10*b^2 + 5*a^8*b^4 + 3*a^6*b^6 - 4*a^4*b^8 + a^2*b^10)*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2 - (27*a^2 - 11*b^2)/(a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2)/((a^16 - 6*a^14*b^2 + 15*a^12*b^4 - 20*a^10*b^6 + 15*a^8*b^8 - 6*a^6*b^10 + a^4*b^12)*d^4))/((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2)) - 1/486*sqrt(1/3)*((594*a^19 - 2417*a^17*b^2 + 3931*a^15*b^4 - 3263*a^13*b^6 + 1463*a^11*b^8 - 340*a^9*b^10 + 32*a^7*b^12)*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2 - (27*a^2 - 11*b^2)/(a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4
\end{aligned}$$

$$\begin{aligned}
& -624a^2b^6 + 64b^8)b^2/((a^2 - b^2)^6a^{10}d^6))^{1/3} + 162(3a^4 + \\
& a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^4 \\
& * \sin(dx + c) + 162(243a^{15} - 909a^{13}b^2 + 1301a^{11}b^4 - 879a^9b^6 \\
& + 276a^7b^8 - 32a^5b^{10})d^2*\sin(dx + c))*\sqrt{-(236196a^8 - 3691656a^6b^2 \\
& + 4382748a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2 \\
& + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}))*((-I*\sqrt{3} \\
& + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - \\
& a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - \\
& a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2 \\
& d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8))*b^2/((a^2 - b^2)^6a^{10}d^6))^{1/3} \\
& + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 \\
& + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 \\
& *(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8))*b^2/((a^2 - b^2)^6a^{10}d^6))^{1/3} \\
& + 162(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2d^4 - 324(3a^{12} - 8a^{10}b^2 \\
& + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10})*((-I*\sqrt{3} + 1)*(3*(3a^4 \\
& + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 \\
& + 3a^6b^4d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 \\
& + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& *(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& + 64b^8))*b^2/((a^2 - b^2)^6a^{10}d^6))^{1/3} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 \\
& + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 \\
& + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 45 \\
& 73a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8))*b^2/((a^2 - b^2)^6a^{10}d^6))^{1/3}
\end{aligned}$$

$$\begin{aligned}
& + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - \\
& a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2 \\
& *b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - \\
& b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^{2*d^4} - 324* \\
& (3*a^{12} - 8*a^{10}*b^2 + 5*a^8*b^4 + 3*a^6*b^6 - 4*a^4*b^8 + a^2*b^{10})*((-I*s \\
& qrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b \\
& ^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a \\
& ^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^ \\
& 16*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + \\
& a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 \\
& + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2 \\
& *d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
& - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624 \\
& *a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 2187*(I*sqrt(3) + \\
& 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 \\
& + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d \\
& ^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2* \\
& b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a \\
& ^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/10 \\
& 62882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/(\\
& (a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a \\
& ^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2)/((a^{16} - 6*a^{14}*b^2 + 15*a^ \\
& 12*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b^{10} + a^4*b^{12})*d^4))/((a^8 - 3 \\
& *a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2))*log(-364500*a^{10}*b + 601884*a^8*b^3 - \\
& 412016*a^6*b^5 + 146112*a^4*b^7 - 26880*a^2*b^9 + 2048*b^{11} - 1/1458*(594* \\
& a^{19} - 2417*a^{17}*b^2 + 3931*a^{15}*b^4 - 3263*a^{13}*b^6 + 1463*a^{11}*b^8 - 340* \\
& a^9*b^{10} + 32*a^7*b^{12})*((-I*sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8 \\
& *d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(\\
& a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a \\
& ^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^ \\
& 10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + \\
& 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - \\
& 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 \\
& - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 457 \\
& 3*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^ \\
& 6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^ \\
& 4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3 \\
& *a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6* \\
& d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a
\end{aligned}$$

$$\begin{aligned}
& ^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^{2*d^4*\sin(dx + c) + 1/9*(5589*a^{15} - 4842*a^{13}*b^2 - 190*a^{11}*b^4 + 1470*a^9*b^6 - 552*a^7*b^8 + 64*a^5*b^{10})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^{2*d^2*\sin(dx + c) + 1/8748*\sqrt{2/3}*\sqrt{1/2}*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17}*b^4 - 1655*a^{15}*b^6 + 635*a^{13}*b^8 - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 +
\end{aligned}$$

$$\begin{aligned}
& 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/ \\
& (a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^{2*d^5*\cos(dx + c)} \\
& - 54*(8829*a^{17} + 84*a^{15}*b^2 - 12778*a^{13}*b^4 + 10894*a^{11}*b^6 - 4104*a^9 \\
& *b^8 + 784*a^7*b^{10} - 64*a^5*b^{12})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - \\
& b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 \\
& - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/106 \\
& 2882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b \\
& ^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6 \\
& *b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4) \\
& *(27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4) \\
&)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(337 \\
& 5*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2 \\
&)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2* \\
& b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - \\
& 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
& - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/(a^{10} \\
& *d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d \\
& ^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2 \\
& 460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 1 \\
& 62*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b \\
& ^6*d^2))*d^3*\cos(dx + c) + 2916*(48843*a^{13} - 62721*a^{11}*b^2 + 31549*a^9*b \\
& ^4 - 7866*a^7*b^6 + 1032*a^5*b^8 - 64*a^3*b^{10})*d*\cos(dx + c) + 3*\sqrt{1/3} \\
&)*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17}*b^4 - 1655*a^{15}*b^6 + 635*a^{13}*b^8 \\
& - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4) \\
& ^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11 \\
& *b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882 \\
& *(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d \\
& ^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2 \\
& *d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27 \\
& *a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a \\
& ^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^ \\
& 8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6* \\
& a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 \\
& + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/1 \\
& 9683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a \\
& ^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/(a^{10}*d^ \\
& 4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + \\
& 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460* \\
& a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(
\end{aligned}$$

$$\begin{aligned}
& 3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) \\
& \cdot d^5 \cos(dx + c) - 54 \cdot (1377a^{17} - 5565a^{15}b^2 + 8953a^{13}b^4 - 730 \\
& 3a^{11}b^6 + 3186a^9b^8 - 712a^7b^{10} + 64a^5b^{12}) \cdot d^3 \cos(dx + c) \cdot \sqrt[3]{-} \\
& \sqrt[3]{-(236196a^8 - 3691656a^6b^2 + 4382748a^4b^4 - 1942056a^2b^6 + 30 \\
& 6180b^8 + (a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} \\
& + a^4b^{12})) \cdot ((-I\sqrt{3}) + 1) \cdot (3 \cdot (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2 - (27a^2 - 11b^2) / (a^{10}d^4 \\
& - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 \cdot (729a^4 \\
& - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) \\
& - 1/19683 \cdot (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)^3 + 1/39366 \cdot (3a^4 + a^2b^2 - b^4) \cdot (27a^2 - 11b^2) / ((a^{10}d^4 \\
& - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \cdot (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)) + 1/1062882 \cdot (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& + 64b^8) \cdot b^2 / ((a^2 - b^2)^6 \cdot a^{10}d^6))^{\frac{1}{3}} + 2187 \cdot (I\sqrt{3}) + 1) \cdot (-1/1062882 \cdot (729a^4 \\
& - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) \\
& - 1/19683 \cdot (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2 \\
&)^3 + 1/39366 \cdot (3a^4 + a^2b^2 - b^4) \cdot (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 \\
& + 3a^6b^4d^4 - a^4b^6d^4) \cdot (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 \cdot (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) \cdot b^2 / ((a^2 \\
& - b^2)^6 \cdot a^{10}d^6))^{\frac{1}{3}} + 162 \cdot (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2))^2 \cdot d^4 - 324 \cdot (3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 \\
& + a^2b^{10}) \cdot ((-I\sqrt{3}) + 1) \cdot (3 \cdot (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2))^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 \\
& + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 \cdot (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 \\
& - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 \cdot (3a^4 + a^2b^2 - b^4)^3 \\
& / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 \cdot (3a^4 + a^2b^2 \\
& - b^4) \cdot (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \cdot (a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 \cdot (3375a^8 - 4573a^6b^2 \\
& + 2460a^4b^4 - 624a^2b^6 + 64b^8) \cdot b^2 / ((a^2 - b^2)^6 \cdot a^{10}d^6))^{\frac{1}{3}} + 2187 \cdot (I\sqrt{3} \\
& + 1) \cdot (-1/1062882 \cdot (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 \\
& + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 \cdot (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 \cdot (3a^4 + a^2b^2 - b^4) \cdot (27a^2 - 11b^2) / ((a^{10}d^4 \\
& - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \cdot (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 \cdot (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) \cdot b^2 / ((a^2 \\
& - b^2)^6 \cdot a^{10}d^6))^{\frac{1}{3}} + 162 \cdot (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)
\end{aligned}$$

$$\begin{aligned}
& 2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))d^2)/((a^{16} - 6a^{14}b^2 \\
& + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12})d^4))\sqrt{ \\
& \text{rt}(-(1458a^4 + 486a^2b^2 - 486b^4 - (a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6) \\
& *((-I\sqrt{3}) + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2 \\
& *d^4 + 3a^6b^4d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + \\
& 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/196 \\
& 83*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
& *b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 \\
& - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3 \\
& *a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4 \\
& *b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I \\
& *\sqrt{3}) + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14} \\
& *b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4) \\
& ^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3 \\
& *a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4 \\
& *d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2 \\
& ^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64 \\
& *b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8 \\
& *d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^2 + 3\sqrt{3}*(a^8 - 3a^6b^2 \\
& + 3a^4b^4 - a^2b^6)*d^2*\sqrt{-(236196a^8 - 3691656a^6b^2 \\
& + 4382748a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2 + 1 \\
& 5a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12})*((-I\sqrt{3}) \\
& + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4 \\
& *d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 \\
& - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 \\
& ^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/3 \\
& 9366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + \\
& 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
& *b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 \\
& ^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I\sqrt{3}) + 1)*(-1 \\
& /1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12} \\
& *b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3 \\
& *a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - \\
& b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6 \\
& *d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882* \\
& (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - \\
& b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2
\end{aligned}$$

$$\begin{aligned}
& *d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2*d^4 - 324*(3*a^12 - 8*a^10*b^2 + 5*a^8*b^4 + 3*a^6*b^6 - 4*a^4*b^8 + a^2*b^10)*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4))^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - \\
& (27*a^2 - 11*b^2)/(a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)) / (-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^(1/3) + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^(1/3) + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2)/((a^16 - 6*a^14*b^2 + 15*a^12*b^4 - 20*a^10*b^6 + 15*a^8*b^8 - 6*a^6*b^10 + a^4*b^12)*d^4)))/((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2)) - 1/486*\sqrt{1/3))*((594*a^19 - 2417*a^17*b^2 + 3931*a^15*b^4 - 3263*a^13*b^6 + 1463*a^11*b^8 - 340*a^9*b^10 + 32*a^7*b^12))*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4))^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^(1/3) + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^16*d^6 - 3*a^14*b^2*d^6 + 3*a^12*b^4*d^6 - a^10*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^10*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^10*d^6))^(1/3) + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^4*\sin(d*x + c) + 162*(243*a^15 - 909*a^
\end{aligned}$$

$$\begin{aligned}
& 13b^2 + 1301a^{11}b^4 - 879a^9b^6 + 276a^7b^8 - 32a^5b^{10})d^2 \sin(dx + c) \sqrt{-(236196a^8 - 3691656a^6b^2 + 4382748a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}))((-I\sqrt{3}) + 1)(3(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6*a^{10}d^6)^{(1/3)} + 2187*(I\sqrt{3}) + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6*a^{10}d^6)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2*d^4 - 324*(3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10})*((-I\sqrt{3}) + 1)(3(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6*a^{10}d^6)^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^2*d^2)/((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}))
\end{aligned}$$

$$\begin{aligned}
& *d^4)) - 6*(34263*a^{11} - 48249*a^9*b^2 + 26165*a^7*b^4 - 6460*a^5*b^6 + 608 \\
& *a^3*b^8)*\sin(dx + c) - \sqrt{2/3}*\sqrt{1/2}*((a^4 - a^2*b^2)*d - ((a^3*b \\
& - a*b^3)*d*\cos(dx + c)^2 - (a^3*b - a*b^3)*d)*\sin(dx + c))*\sqrt{-(1458*a^4 \\
& + 486*a^2*b^2 - 486*b^4 - (a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6))*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4))^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{1/3} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{1/3} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2 - 3*\sqrt{1/3}*(a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2*\sqrt{-(236196*a^8 - 3691656*a^6*b^2 + 4382748*a^4*b^4 - 1942056*a^2*b^6 + 306180*b^8 + (a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6*a^6*b^{10} + a^4*b^{12}))*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4))^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{1/3} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}
\end{aligned}$$

$$\begin{aligned} & *d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4 \\ & *b^4*d^2 - a^2*b^6*d^2)^2*d^4 - 324*(3*a^{12} - 8*a^{10}*b^2 + 5*a^8*b^4 + 3*a \\ & ^6*b^6 - 4*a^4*b^8 + a^2*b^{10})*((-I*\sqrt{3}) + 1)*(3*(3*a^4 + a^2*b^2 - b^4) \\ & ^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11 \\ & *b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882 \\ & *(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d \\ & ^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2 \\ & *d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27 \\ & *a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a \\ & ^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^ \\ & 8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6* \\ & a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 \\ & + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/1 \\ & 9683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a \\ & ^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^ \\ & 4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + \\ & 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460* \\ & a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(\\ & 3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d \\ & ^2))*d^2/((a^{16} - 6*a^{14}*b^2 + 15*a^{12}*b^4 - 20*a^{10}*b^6 + 15*a^8*b^8 - 6* \\ & a^6*b^{10} + a^4*b^{12})*d^4))/((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d^2))* \\ & \log(-364500*a^{10}*b + 601884*a^8*b^3 - 412016*a^6*b^5 + 146112*a^4*b^7 - 268 \\ & 80*a^2*b^9 + 2048*b^{11} - 1/1458*(594*a^{19} - 2417*a^{17}*b^2 + 3931*a^{15}*b^4 - \\ & 3263*a^{13}*b^6 + 1463*a^{11}*b^8 - 340*a^9*b^{10} + 32*a^7*b^{12})*((-I*\sqrt{3}) + \\ & 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - \\ & a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4*d \\ & ^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - \\ & 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 \\ & - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/393 \\ & 66*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3 \\ & *a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2* \\ & b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 \\ & + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3}) + 1)*(-1/1 \\ & 062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12} \\ & *b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a \\ & ^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^ \\ & 4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d \\ & ^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3 \\ & 375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b \end{aligned}$$

$$\begin{aligned}
& ^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2*d^4*\sin(dx + c) + 1/9*(5589*a^{15} - 48 \\
& 42*a^{13}*b^2 - 190*a^{11}*b^4 + 1470*a^9*b^6 - 552*a^7*b^8 + 64*a^5*b^{10})*((-I \\
& *sqrt(3) + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4 \\
& *b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3 \\
& *a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(\\
& a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 \\
& + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2) \\
& ^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4) \\
& *(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 6 \\
& 24*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*sqrt(3) \\
& + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8 \\
& *d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2 \\
& *b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4) \\
& *(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/ \\
& 1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2 \\
& /((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3 \\
& *a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2*\sin(dx + c) - 1/8748*sqrt \\
& (2/3)*sqrt(1/2)*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17}*b^4 - 1655*a^{15}*b^6 \\
& + 635*a^{13}*b^8 - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*sqrt(3) + 1)*(3*(3*a^4 + \\
& a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 \\
& - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4) \\
&))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 \\
& + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 \\
& ^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2* \\
& b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4 \\
& *b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/10 \\
& 62882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/(\\
& (a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*sqrt(3) + 1)*(-1/1062882*(729*a^4 \\
& - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10} \\
& *b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4 \\
& *b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11* \\
& b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3 \\
& *a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6 \\
& *b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)) \\
& ^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
& ^2 - a^2*b^6*d^2))^2*d^5*\cos(dx + c) - 54*(8829*a^{17} + 84*a^{15}*b^2 - 12778
\end{aligned}$$

$$\begin{aligned}
& *a^{13}b^4 + 10894a^{11}b^6 - 4104a^9b^8 + 784a^7b^{10} - 64a^5b^{12}) * ((- \\
& I\sqrt{3} + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + \\
& 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / \\
& (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 \\
& + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 2187 * (I\sqrt{3} \\
& + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 \\
& + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) \\
& * d^3 * \cos(dx + c) + 2916 * (4884 \\
& 3a^{13} - 62721a^{11}b^2 + 31549a^9b^4 - 7866a^7b^6 + 1032a^5b^8 - 64a^3b^{10}) * d * \cos(dx + c) - 3\sqrt{1/3} * ((378a^{21} - 1463a^{19}b^2 + 2215a^{17}b^4 - 1655a^{15}b^6 + 635a^{13}b^8 - 118a^{11}b^{10} + 8a^9b^{12}) * ((-I\sqrt{3} \\
& + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 \\
& + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 2187 * (I\sqrt{3} + 1) \\
&) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 \\
& + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) \\
& * d^5 * \cos(dx + c) - 54 * (1377a^{17} \\
& - 5565a^{15}b^2 + 8953a^{13}b^4 - 7303a^{11}b^6 + 3186a^9b^8 - 712a^7b^{10}
\end{aligned}$$

$$\begin{aligned}
& 10 + 64a^5b^{12}d^3\cos(dx + c)\sqrt{-(236196a^8 - 3691656a^6b^2 + 4382748a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}))((-I\sqrt{3}) + 1)} \\
& * (3(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) \\
& / (-1/1062882(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683(3a^4 + a^2b^2 - b^4)^3 \\
& / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366(3a^4 + a^2b^2 - b^4)(27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) \\
& * b^2 / ((a^2 - b^2)^6 a^{10}d^6)^{1/3} + 2187(I\sqrt{3} + 1)(-1/1062882(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) \\
& - 1/19683(3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366(3a^4 + a^2b^2 - b^4) \\
& * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) \\
& + 1/1062882(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 a^{10}d^6)^{1/3} + 162(3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 \\
& + 3a^4b^4d^2 - a^2b^6d^2)^2 d^4 - 324(3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10}) * ((-I\sqrt{3}) + 1) * (3(3a^4 + a^2b^2 - b^4)^2 \\
& / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) \\
& / (-1/1062882(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683(3a^4 + a^2b^2 - b^4)^3 \\
& / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366(3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 a^{10}d^6)^{1/3} \\
& + 2187(I\sqrt{3} + 1)(-1/1062882(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) \\
& - 1/19683(3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366(3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) \\
& * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 a^{10}d^6)^{1/3} \\
& + 162(3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) * d^2 / ((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}) * d^4)) \\
& \sqrt{-(1458a^4 + 486a^2b^2 - 486b^4}
\end{aligned}$$

$$\begin{aligned}
& - (a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6) * ((-I\sqrt{3}) + 1) * (3(3a^4 + a^2 \\
& * b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (\\
& 27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / \\
& (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3 \\
& a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 \\
& - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4 \\
& b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/10628 \\
& 82 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^ \\
& 2 - b^2)^6 * a^{10}d^6))^{(1/3)} + 2187 * (I\sqrt{3}) + 1) * (-1/1062882 * (729a^4 - 4 \\
& 32a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6 \\
& * d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4 * \\
& b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2 \\
&) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^ \\
& 6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6 * \\
& b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{(1 \\
& /3)} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
& - a^2b^6d^2)) * d^2 - 3 * \sqrt{1/3} * (a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6) * d \\
& ^2 * \sqrt{-(236196a^8 - 3691656a^6b^2 + 4382748a^4b^4 - 1942056a^2b^6 \\
& + 306180b^8 + (a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 \\
& - 6a^6b^{10} + a^4b^{12}) * ((-I\sqrt{3}) + 1) * (3(3a^4 + a^2b^2 - b^4)^2 / (a^ \\
& 8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / \\
& (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729 * \\
& a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a \\
& ^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + \\
& 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - \\
& 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 \\
& - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 45 \\
& 73a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d \\
& ^6))^{(1/3)} + 2187 * (I\sqrt{3}) + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b \\
& ^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (\\
& 3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6 \\
& * d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3 * \\
& a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4 \\
& * b^4d^2 - a^2b^6d^2)) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^ \\
& 4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{(1/3)} + 162 * (3a^4 \\
& + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^{2 \\
& * d^4 - 324 * (3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b \\
& ^{10}) * ((-I\sqrt{3}) + 1) * (3(3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2
\end{aligned}$$

$$\begin{aligned}
& 2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^2)/((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12})*d^4)))/((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6)*d^2)) + 1/486*\sqrt{1/3}*((594a^{19} - 2417a^{17}b^2 + 3931a^{15}b^4 - 3263a^{13}b^6 + 1463a^{11}b^8 - 340a^9b^{10} + 32a^7b^{12})*((-I*\sqrt{3}) + 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3)} + 162*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^4*\sin(dx + c) + 162*(243a^{15} - 909a^{13}b^2 + 1301a^{11}b^4 - 879a^9b^6 + 276a^7b^8 - 32a^5b^{10})*d^2*\sin(dx + c))*\sqrt{-(236196a^8 - 3691656a^6b^2 + 4382748a^4b^4 - 1942056a^2b^6 + 306180b^8 + (a^{16} - 6a^{14}b^2
\end{aligned}$$

$$\begin{aligned}
& 2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}) * ((-I\sqrt{3} + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 2187 * (I\sqrt{3} + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 * d^4 - 324 * (3a^{12} - 8a^{10}b^2 + 5a^8b^4 + 3a^6b^6 - 4a^4b^8 + a^2b^{10}) * ((-I\sqrt{3} + 1) * (3 * (3a^4 + a^2b^2 - b^4)^2 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^2 - (27a^2 - 11b^2) / (a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)) / (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 2187 * (I\sqrt{3} + 1) * (-1/1062882 * (729a^4 - 432a^2b^2 + 64b^4) / (a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683 * (3a^4 + a^2b^2 - b^4)^3 / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)^3 + 1/39366 * (3a^4 + a^2b^2 - b^4) * (27a^2 - 11b^2) / ((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d^4) * (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))) + 1/1062882 * (3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8) * b^2 / ((a^2 - b^2)^6 * a^{10}d^6))^{1/3} + 162 * (3a^4 + a^2b^2 - b^4) / (a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2) * d^2) / ((a^{16} - 6a^{14}b^2 + 15a^{12}b^4 - 20a^{10}b^6 + 15a^8b^8 - 6a^6b^{10} + a^4b^{12}) * d^4) - 6 * (34263a^{11} - 48249a^9b^2 + 26165a^7b^4 - 6460a^5b^6 + 608a^3b^8) * \sin(dx + c) - 72 * a * b * \cos(dx + c) - 54 * ((a^4 - a^2b^2) * d - ((a^3b - ab^3) * d * \cos(dx + c))^2 - (a^3 *
\end{aligned}$$

$$\begin{aligned}
& (b - a*b^3)*d)*\sin(d*x + c))*\sqrt{-1/4374*(-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b \\
& ^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27 \\
& *a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(- \\
& 1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a \\
& ^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - \\
& b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^ \\
& 6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882 \\
& *(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 \\
& - b^2)^6*a^{10}*d^6))^{(1/3)} - 1/2*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432* \\
& a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^ \\
& 6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
& *d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/ \\
& ((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^ \\
& ^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 \\
& + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} \\
& - 1/27*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - \\
& a^2*b^6*d^2))*\log(182250*a^{10}*b - 300942*a^8*b^3 + 206008*a^6*b^5 - 73056*a \\
& ^4*b^7 + 13440*a^2*b^9 - 1024*b^{11} - 1/1458*(594*a^{19} - 2417*a^{17}*b^2 + 393 \\
& 1*a^{15}*b^4 - 3263*a^{13}*b^6 + 1463*a^{11}*b^8 - 340*a^9*b^{10} + 32*a^7*b^{12})*((\\
& -I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a \\
& ^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + \\
& 3*a^6*b^4*d^4 - a^4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4) \\
& /((a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a \\
& ^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^ \\
& 2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8 \\
& *b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^ \\
& 4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - \\
& 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3} \\
&) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2* \\
& d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a \\
& ^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + \\
& a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 \\
& - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + \\
& 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b \\
& ^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2*d^4*\sin(d*x + c) + 1/9*(55 \\
& 89*a^{15} - 4842*a^{13}*b^2 - 190*a^{11}*b^4 + 1470*a^9*b^6 - 552*a^7*b^8 + 64*a^ \\
& 5*b^{10})*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2
\end{aligned}$$

$$\begin{aligned}
& *d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8 \\
& *b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 \\
& + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/ \\
& 19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - \\
& a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d \\
& ^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 \\
& + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460 \\
& *a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187 \\
& *(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3 \\
& *a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - \\
& b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366 \\
& *(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a \\
& ^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^ \\
& 6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + \\
& 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/ \\
& (a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2*\sin(d*x + c) - \\
& 6*(34263*a^{11} - 48249*a^9*b^2 + 26165*a^7*b^4 - 6460*a^5*b^6 + 608*a^3*b^8 \\
&)*\sin(d*x + c) - 1/162*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17}*b^4 - 1655*a^ \\
& 15*b^6 + 635*a^{13}*b^8 - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*\sqrt{3} + 1)*(3*(3 \\
& *a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6* \\
& d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4* \\
& b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b \\
& ^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3 \\
& /(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 \\
& + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4* \\
& d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) \\
& + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8 \\
&)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(7 \\
& 29*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 \\
& - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^ \\
& 2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^ \\
& 2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8* \\
& d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - \\
& 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^1 \\
& 0*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^ \\
& 4*b^4*d^2 - a^2*b^6*d^2))^2*d^5*\cos(d*x + c) - 54*(8829*a^{17} + 84*a^{15}*b^2 \\
& - 12778*a^{13}*b^4 + 10894*a^{11}*b^6 - 4104*a^9*b^8 + 784*a^7*b^{10} - 64*a^5*b^ \\
& 12)*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 \\
& + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2
\end{aligned}$$

$$\begin{aligned}
& *d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 6 \\
& 4*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/1968 \\
& 3*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2* \\
& b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - \\
& 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3* \\
& a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4 \\
& *b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 2187*(I* \\
& \text{sqrt}(3) + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{1} \\
& 4*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4 \\
&)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3* \\
& a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b \\
& ^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^ \\
& 2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64* \\
& b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8 \\
& *d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^3*\cos(d*x + c) + 291 \\
& 6*(48843*a^{13} - 72846*a^{11}*b^2 + 45268*a^9*b^4 - 15246*a^7*b^6 + 2904*a^5*b \\
& ^8 - 256*a^3*b^{10})*d*\cos(d*x + c))*\text{sqrt}(-1/4374*(-I*\text{sqrt}(3) + 1)*(3*(3*a^4 \\
& + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^ \\
& 2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d \\
& ^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^ \\
& 6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8 \\
& *d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^ \\
& 2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - \\
& a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/ \\
& 1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2 \\
& /((a^2 - b^2)^6*a^{10}*d^6))^{(1/3)} - 1/2*(I*\text{sqrt}(3) + 1)*(-1/1062882*(729*a^4 \\
& - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10} \\
& *b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3* \\
& a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11 \\
& *b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573* \\
& a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6) \\
&)^{(1/3)} - 1/27*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
& *d^2 - a^2*b^6*d^2)) + 54*((a^4 - a^2*b^2)*d - ((a^3*b - a*b^3)*d*\cos(d*x \\
& + c)^2 - (a^3*b - a*b^3)*d)*\sin(d*x + c))*\text{sqrt}(-1/4374*(-I*\text{sqrt}(3) + 1)*(3* \\
& (3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6 \\
& *d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^ \\
& 4*b^6*d^4)))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14} \\
& *b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)
\end{aligned}$$

$$\begin{aligned}
& 1*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - \\
& 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573 \\
& *a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6 \\
&)^{(1/3)} + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4 \\
&)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3* \\
& a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2) \\
& ^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8 \\
& *b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
& *d^2 - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 \\
& - 624*a^2*b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + \\
& a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))*d^2 \\
& *sin(d*x + c) + 6*(34263*a^{11} - 48249*a^9*b^2 + 26165*a^7*b^4 - 6460*a^5*b^6 \\
& + 608*a^3*b^8)*sin(d*x + c) - 1/162*((378*a^{21} - 1463*a^{19}*b^2 + 2215*a^{17} \\
& *b^4 - 1655*a^{15}*b^6 + 635*a^{13}*b^8 - 118*a^{11}*b^{10} + 8*a^9*b^{12})*((-I*\sqrt{3} \\
& + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4 \\
& *d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6 \\
& *b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16} \\
& *d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a \\
& ^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + \\
& 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 \\
& ^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 \\
& - a^2*b^6*d^2)) + 1/1062882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2 \\
& *b^6 + 64*b^8)*b^2/((a^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 2187*(I*\sqrt{3} + 1) \\
& *(-1/1062882*(729*a^4 - 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + \\
& 3*a^{12}*b^4*d^6 - a^{10}*b^6*d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 \\
& - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 \\
& - b^4)*(27*a^2 - 11*b^2)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4 \\
& *b^6*d^4)*(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)) + 1/1062 \\
& 882*(3375*a^8 - 4573*a^6*b^2 + 2460*a^4*b^4 - 624*a^2*b^6 + 64*b^8)*b^2/((a \\
& ^2 - b^2)^6*a^{10}*d^6)^{(1/3)} + 162*(3*a^4 + a^2*b^2 - b^4)/(a^8*d^2 - 3*a^6 \\
& *b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2))^2*d^5*cos(d*x + c) - 54*(8829*a^{17} \\
& + 84*a^{15}*b^2 - 12778*a^{13}*b^4 + 10894*a^{11}*b^6 - 4104*a^9*b^8 + 784*a^7*b \\
& ^{10} - 64*a^5*b^{12})*((-I*\sqrt{3} + 1)*(3*(3*a^4 + a^2*b^2 - b^4)^2/(a^8*d^2 \\
& - 3*a^6*b^2*d^2 + 3*a^4*b^4*d^2 - a^2*b^6*d^2)^2 - (27*a^2 - 11*b^2)/(a^{10} \\
& *d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4))/(-1/1062882*(729*a^4 - \\
& 432*a^2*b^2 + 64*b^4)/(a^{16}*d^6 - 3*a^{14}*b^2*d^6 + 3*a^{12}*b^4*d^6 - a^{10}*b^6 \\
& *d^6) - 1/19683*(3*a^4 + a^2*b^2 - b^4)^3/(a^8*d^2 - 3*a^6*b^2*d^2 + 3*a^4 \\
& *b^4*d^2 - a^2*b^6*d^2)^3 + 1/39366*(3*a^4 + a^2*b^2 - b^4)*(27*a^2 - 11*b^2 \\
&)/((a^{10}*d^4 - 3*a^8*b^2*d^4 + 3*a^6*b^4*d^4 - a^4*b^6*d^4)*(a^8*d^2 - 3*a
\end{aligned}$$

$$\begin{aligned}
 &^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6 \\
 &*b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(\\
 &1/3) + 2187*(I*\sqrt{3} + 1)*(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a \\
 &^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 \\
 &+ a^2b^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^{ \\
 &3 + 1/39366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2 \\
 &^2d^4 + 3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
 &^2 - a^2b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 62 \\
 &4a^2b^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3) + 162*(3a^4 + a^2* \\
 &b^2 - b^4)/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))*d^3*\cos \\
 &(d*x + c) + 2916*(48843a^{13} - 72846a^{11}b^2 + 45268a^9b^4 - 15246a^7b^ \\
 &^6 + 2904a^5b^8 - 256a^3b^{10})*d*\cos(d*x + c))*\sqrt{-1/4374*(-I*\sqrt{3} \\
 &+ 1)*(3*(3a^4 + a^2b^2 - b^4)^2/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 \\
 &- a^2b^6d^2))^2 - (27a^2 - 11b^2)/(a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4 \\
 &d^4 - a^4b^6d^4)))/(-1/1062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 \\
 &- 3a^{14}b^2d^6 + 3a^{12}b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^ \\
 &^2 - b^4)^3/(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39 \\
 &366*(3a^4 + a^2b^2 - b^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + \\
 &3a^6b^4d^4 - a^4b^6d^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2 \\
 &*b^6d^2)) + 1/1062882*(3375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^ \\
 &^6 + 64b^8)*b^2/((a^2 - b^2)^6a^{10}d^6))^{(1/3) - 1/2*(I*\sqrt{3} + 1)*(-1/1 \\
 &062882*(729a^4 - 432a^2b^2 + 64b^4)/(a^{16}d^6 - 3a^{14}b^2d^6 + 3a^{12} \\
 &b^4d^6 - a^{10}b^6d^6) - 1/19683*(3a^4 + a^2b^2 - b^4)^3/(a^8d^2 - 3a \\
 &^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2))^3 + 1/39366*(3a^4 + a^2b^2 - b^ \\
 &^4)*(27a^2 - 11b^2)/((a^{10}d^4 - 3a^8b^2d^4 + 3a^6b^4d^4 - a^4b^6d \\
 &^4)*(a^8d^2 - 3a^6b^2d^2 + 3a^4b^4d^2 - a^2b^6d^2)) + 1/1062882*(3 \\
 &375a^8 - 4573a^6b^2 + 2460a^4b^4 - 624a^2b^6 + 64b^8)*b^2/((a^2 - b \\
 &^2)^6a^{10}d^6))^{(1/3) - 1/27*(3a^4 + a^2b^2 - b^4)/(a^8d^2 - 3a^6b^2* \\
 &d^2 + 3a^4b^4d^2 - a^2b^6d^2)))/((a^4 - a^2b^2)*d - ((a^3b - a*b^3) \\
 &*d*\cos(d*x + c))^2 - (a^3b - a*b^3)*d)*\sin(d*x + c))
 \end{aligned}$$

Integral number [335]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 40.6066 (sec), size = 102913 ,normalized size = 4474.48

Too large to display

[In] integrate(sec(d*x+c)^2/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

[Out]

$$\begin{aligned} & 1/108*(108*(a^3*b + 2*a*b^3)*\cos(d*x + c)^4 - 108*a^3*b + 108*a*b^3 - \sqrt{2}*\sqrt{1/2}*((a^6 - 2*a^4*b^2 + a^2*b^4)*d*\cos(d*x + c) - ((a^5*b - 2*a^3*b^3 + a*b^5)*d*\cos(d*x + c)) \\ & * \sin(d*x + c))*\sqrt{-(5670*a^6*b^2 + 31590*a^4*b^4 + 2916*a^2*b^6 - 810*b^8 - (a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*((-I*\sqrt{3} + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^2 + 3*\sqrt{1/3}*(a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*d^2*\sqrt{((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + \end{aligned}$$

$$\begin{aligned}
& 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20}) * ((-I * \\
& \text{sqrt}(3) + 1) * ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2) \\
& - 45 * (10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - \\
& 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / (-1/19683 * (35a^6b^2 + \\
& 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - \\
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882 * (1562 \\
& 5a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4 \\
& * d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 * (35a^6b^2 \\
& + 195a^4b^4 + 18a^2b^6 - 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12} \\
& b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - \\
& 1/1062882 * (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + \\
& 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} \\
& a^{10}d^6)^{(1/3)} + 729 * (I * \text{sqrt}(3) + 1) * (-1/19683 * (35a^6b^2 + \\
& 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - \\
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882 * (15625a^4b^4 - \\
& 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + \\
& 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + \\
& 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + \\
& 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 * (15625a^{14} + 959375a^{12} \\
& * b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + \\
& 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} a^{10}d^6)^{(1/3)} + 54 * (35a^6 \\
& * b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - \\
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 * d^4 + 108 * (35 \\
& * a^{18}b^2 + 20a^{16}b^4 - 607a^{14}b^6 + 1505a^{12}b^8 - 1570a^{10}b^{10} + 7 \\
& 10a^8b^{12} - 55a^6b^{14} - 43a^4b^{16} + 5a^2b^{18}) * ((-I * \text{sqrt}(3) + 1) * ((3 \\
& 5a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + \\
& 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45 * (1 \\
& 0a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + \\
& 5a^6b^8d^4 - a^4b^{10}d^4)) / (-1/19683 * (35a^6b^2 + 195a^4b^4 + \\
& 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + \\
& 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882 * (15625a^4b^4 - 2000 \\
& * a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + \\
& 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + \\
& 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5
\end{aligned}$$

$$\begin{aligned}
& 4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625 \\
& *a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4* \\
& d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^ \\
& 2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12} \\
& *b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4 \\
&)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8* \\
& d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10} \\
& *b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - \\
& 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^ \\
& 4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^ \\
& 6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2*d^4*\sin(d*x + c) + 1/3*(218750 \\
& *a^{21}*b^2 + 8560625*a^{19}*b^4 + 36478724*a^{17}*b^6 + 22289615*a^{15}*b^8 - 5385 \\
& 700*a^{13}*b^{10} - 80695*a^{11}*b^{12} + 107510*a^9*b^{14} - 10552*a^7*b^{16} + 320*a^ \\
& 5*b^{18})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^ \\
& 2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8* \\
& d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + \\
& 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683 \\
& *(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^ \\
& 2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/ \\
& 1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 \\
& + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1 \\
& 458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^ \\
& 14*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 \\
& - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^ \\
& 2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^ \\
& 2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 23 \\
& 20*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} \\
&) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^ \\
& 2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2* \\
& b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - \\
& 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10} \\
& *b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2 \\
& *b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 \\
& + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} \\
& + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 377 \\
& 40*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} \\
& + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^ \\
& 2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^
\end{aligned}$$

$$\begin{aligned}
& 2*\sin(d*x + c) + 1/972*\sqrt{2}*\sqrt{1/2}*((1625*a^{29} + 36046*a^{27}*b^2 - 163 \\
& 881*a^{25}*b^4 + 213510*a^{23}*b^6 + 15855*a^{21}*b^8 - 274068*a^{19}*b^{10} + 248289 \\
& *a^{17}*b^{12} - 87954*a^{15}*b^{14} + 11160*a^{13}*b^{16} - 590*a^{11}*b^{18} + 8*a^9*b^{20} \\
&)*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
& a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 1 \\
& 0*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/106288 \\
& 2*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(3 \\
& 5*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 \\
& - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5* \\
& a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24 \\
& 861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2 \\
& *b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3}) + 1) \\
& *(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5* \\
& a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18} \\
& *b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10} \\
& *d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - \\
& b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6 \\
& *b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10* \\
& a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 9593 \\
& 75*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4 \\
& *b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54* \\
& (35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2*d^5*co \\
& s(d*x + c) - 18*(371875*a^{23}*b^2 + 17385825*a^{21}*b^4 + 89633928*a^{19}*b^6 + \\
& 76413303*a^{17}*b^8 - 9497193*a^{15}*b^{10} - 2729625*a^{13}*b^{12} + 666195*a^{11}*b^{14} \\
& - 60144*a^9*b^{16} + 2784*a^7*b^{18} - 64*a^5*b^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10 \\
& *a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 \\
& + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6* \\
& d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2 \\
& *b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6
\end{aligned}$$

$$\begin{aligned}
&^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 1 \\
&8*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10} \\
&*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10} \\
&0*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2) \\
&) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8* \\
&b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 \\
&- b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 19 \\
&5*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d \\
&^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^ \\
&4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 \\
&- 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + \\
&195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b \\
&^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(\\
&a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
&- a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^ \\
&4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64* \\
&b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + \\
&18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b \\
&^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^3*cos(d*x + c) + 324*(781250*a^{19} \\
&*b^2 + 46212500*a^{17}*b^4 + 253989575*a^{15}*b^6 + 187100801*a^{13}*b^8 - 587774 \\
&20*a^{11}*b^{10} + 6223907*a^9*b^{12} - 286186*a^7*b^{14} + 5816*a^5*b^{16} - 64*a^3* \\
&b^{18})*d*cos(d*x + c) + 3*sqrt(1/3)*((1625*a^{29} + 36046*a^{27}*b^2 - 163881*a^ \\
&25*b^4 + 213510*a^{23}*b^6 + 15855*a^{21}*b^8 - 274068*a^{19}*b^{10} + 248289*a^{17}* \\
&b^{12} - 87954*a^{15}*b^{14} + 11160*a^{13}*b^{16} - 590*a^{11}*b^{18} + 8*a^9*b^{20})*((-I \\
&*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 \\
&- 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^ \\
&^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4* \\
&d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 \\
&+ 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8* \\
&b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(156 \\
&25*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^ \\
&4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6* \\
&b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a \\
&^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d \\
&^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^ \\
&8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^ \\
&10*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} \\
&- 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/1 \\
&9683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b
\end{aligned}$$

$$\begin{aligned}
& ^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)^3 \\
& - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^20*d^6 - 5*a^18*b^2* \\
& d^6 + 10*a^16*b^4*d^6 - 10*a^14*b^6*d^6 + 5*a^12*b^8*d^6 - a^10*b^10*d^6) + \\
& 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/ \\
& ((a^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8* \\
& d^4 - a^4*b^10*d^4)*(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^ \\
& 6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/1062882*(15625*a^14 + 959375*a^1 \\
& 2*b^2 + 24861*a^10*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^10 \\
& + 2320*a^2*b^12 - 64*b^14)*b^4/((a^2 - b^2)^10*a^10*d^6))^(1/3) + 54*(35*a^ \\
& 6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a \\
& ^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2))*d^5*cos(d*x + \\
& c) - 18*(140000*a^23*b^2 - 620085*a^21*b^4 + 977487*a^19*b^6 - 484056*a^17* \\
& b^8 - 339114*a^15*b^10 + 510315*a^13*b^12 - 216285*a^11*b^14 + 34098*a^9*b^ \\
& 16 - 2424*a^7*b^18 + 64*a^5*b^20)*d^3*cos(d*x + c))*sqrt((5467500*a^12*b^4 \\
& + 146179080*a^10*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^10 - 45717048*a^ \\
& 4*b^12 + 6298560*a^2*b^14 - 306180*b^16 - (a^24 - 10*a^22*b^2 + 45*a^20*b^4 \\
& - 120*a^18*b^6 + 210*a^16*b^8 - 252*a^14*b^10 + 210*a^12*b^12 - 120*a^10*b^ \\
& ^14 + 45*a^8*b^16 - 10*a^6*b^18 + a^4*b^20))*((-I*sqrt(3) + 1))*((35*a^6*b^2 \\
& + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b \\
& ^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)^2 - 45*(10*a^2*b^4 \\
& - b^6)/(a^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^ \\
& 6*b^8*d^4 - a^4*b^10*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 \\
& - 5*b^8)^3/(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
& 5*a^4*b^8*d^2 - a^2*b^10*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + \\
& 64*b^8)/(a^20*d^6 - 5*a^18*b^2*d^6 + 10*a^16*b^4*d^6 - 10*a^14*b^6*d^6 + 5 \\
& *a^12*b^8*d^6 - a^10*b^10*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2* \\
& b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d \\
& ^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^10*d^4)*(a^12*d^2 - 5*a^10*b^2* \\
& d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/ \\
& 1062882*(15625*a^14 + 959375*a^12*b^2 + 24861*a^10*b^4 - 1094705*a^8*b^6 + \\
& 307475*a^6*b^8 - 37740*a^4*b^10 + 2320*a^2*b^12 - 64*b^14)*b^4/((a^2 - b^2) \\
& ^10*a^10*d^6))^(1/3) + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4* \\
& b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 1 \\
& 0*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)^3 - 1/1062882*(15625*a^4*b^4 \\
& - 2000*a^2*b^6 + 64*b^8)/(a^20*d^6 - 5*a^18*b^2*d^6 + 10*a^16*b^4*d^6 - 10* \\
& a^14*b^6*d^6 + 5*a^12*b^8*d^6 - a^10*b^10*d^6) + 5/1458*(35*a^6*b^2 + 195*a \\
& ^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^14*d^4 - 5*a^12*b^2*d^4 \\
& + 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^10*d^4)*(a^12*d \\
& ^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2
\end{aligned}$$

$$\begin{aligned}
& *b^{10}d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 10 \\
& 94705*a^8b^6 + 307475*a^6b^8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})* \\
& b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35*a^6b^2 + 195*a^4b^4 + 18*a^2 \\
& b^6 - 5*b^8)/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 \\
& + 5*a^4b^8d^2 - a^2b^{10}d^2))^{2*d^4} + 108*(35*a^{18}b^2 + 20*a^{16}b^4 - \\
& 607*a^{14}b^6 + 1505*a^{12}b^8 - 1570*a^{10}b^{10} + 710*a^8b^{12} - 55*a^6b^{14} \\
& - 43*a^4b^{16} + 5*a^2b^{18})*((-I*sqrt(3) + 1)*((35*a^6b^2 + 195*a^4b^4 + \\
& 18*a^2b^6 - 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6 \\
& b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2))^{2*d^4} - 45*(10*a^2b^4 - b^6)/(a^{14}d^4 \\
& - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10} \\
& d^4))/(-1/19683*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8)^3/(a^{12} \\
& d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - \\
& a^2b^{10}d^2))^{3*d^4} - 1/1062882*(15625*a^4b^4 - 2000*a^2b^6 + 64*b^8)/(a^{20}d \\
& ^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 + 5*a^{12}b^8d^6 - \\
& a^{10}b^{10}d^6) + 5/1458*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8)*(10 \\
& *a^2b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 \\
& + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4 \\
& d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625*a \\
& ^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 + 307475*a^6b^8 - \\
& 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(\\
& 1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 \\
& - 5*b^8)^3/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + \\
& 5*a^4b^8d^2 - a^2b^{10}d^2))^{3*d^4} - 1/1062882*(15625*a^4b^4 - 2000*a^2b^6 + \\
& 64*b^8)/(a^{20}d^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 + 5 \\
& *a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 \\
& b^6 - 5*b^8)*(10*a^2b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 \\
& - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^2d^2 \\
& d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - 1/ \\
& 1062882*(15625*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 + \\
& 307475*a^6b^8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b^2) \\
& ^{10}a^{10}d^6))^{(1/3)} + 54*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8)/(\\
& a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 \\
& - a^2b^{10}d^2))*d^2/((a^{24} - 10*a^{22}b^2 + 45*a^{20}b^4 - 120*a^{18}b^6 + \\
& 210*a^{16}b^8 - 252*a^{14}b^{10} + 210*a^{12}b^{12} - 120*a^{10}b^{14} + 45*a^8b^{16} \\
& - 10*a^6b^{18} + a^4b^{20})*d^4))*sqrt(-(5670*a^6b^2 + 31590*a^4b^4 + 2916 \\
& *a^2b^6 - 810*b^8 - (a^{12} - 5*a^{10}b^2 + 10*a^8b^4 - 10*a^6b^6 + 5*a^4b^8 \\
& ^8 - a^2b^{10}))*((-I*sqrt(3) + 1)*((35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - \\
& 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a \\
& ^4b^8d^2 - a^2b^{10}d^2))^{2*d^4} - 45*(10*a^2b^4 - b^6)/(a^{14}d^4 - 5*a^{12}b^2
\end{aligned}$$

$$\begin{aligned}
& *d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)/(- \\
& 1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10} \\
& 0*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2) \\
& ^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b \\
& ^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6 \\
&) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6) \\
& /((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8 \\
& ^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6 \\
& *b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375* \\
& a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} \\
& + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I \\
& *sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(\\
& a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
& - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^2 \\
& 0*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 \\
& - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)* \\
& (10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6 \\
& ^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8* \\
& b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(1562 \\
& 5*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 \\
& - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6) \\
&)^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5* \\
& a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d \\
& ^2))*d^2 + 3*sqrt(1/3)*(a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4 \\
& *b^8 - a^2*b^{10})*d^2*sqrt((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 28855278 \\
& 0*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306 \\
& 180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 \\
& - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} \\
& + a^4*b^{20})*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5* \\
& b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4 \\
& *b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d \\
& ^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)))/(-1/ \\
& 19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10} \\
& b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 \\
& - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2 \\
& *d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) \\
& + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6) \\
& /((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8 \\
& *d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6
\end{aligned}$$

$$\begin{aligned}
& 12*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} \\
& + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^2)/((a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*d^4)) \\
&)/((a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*d^2)) - 1/54*sqrt(1/3)*((3125*a^{27} + 42925*a^{25}*b^2 - 229635*a^{23}*b^4 + 385770*a^{21}*b^6 - 204510*a^{19}*b^8 - 125307*a^{17}*b^{10} + 201885*a^{15}*b^{12} - 87360*a^{13}*b^{14} + 14175*a^{11}*b^{16} - 1100*a^9*b^{18} + 32*a^7*b^{20})*((-I*sqrt(3) + 1) * ((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^4*sin(d*x + c) - 54*(109375*a^{21}*b^2 - 584750*a^{19}*b^4 + 1287601*a^{17}*b^6 - 1495040*a^{15}*b^8 + 971185*a^{13}*b^{10} - 345110*a^{11}*b^{12} + 61855*a^9*b^{14} - 5276*a^7*b^{16} + 160*a^5*b^{18})*d^2*sin(d*x + c))*sqrt((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552
\end{aligned}$$

$$\begin{aligned}
& 0*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} \\
& + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 \\
& - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b \\
& ^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - \\
& 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}* \\
& b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2* \\
& b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + \\
& 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + \\
& 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 3774 \\
& 0*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} \\
& + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2 \\
& *d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^2 \\
& - 3*\sqrt{1/3}*(a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a \\
& ^2*b^{10})*d^2*\sqrt{((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552780*a^8*b^ \\
& 8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306180*b^{16} \\
& - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{ \\
& 14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b \\
& ^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(\\
& a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
& - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10* \\
& a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(3 \\
& 5*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/106 \\
& 2882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 1 \\
& 0*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458 \\
& *(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}* \\
& d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a \\
& ^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
& 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + \\
& 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320* \\
& a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + \\
& 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - \\
& 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{1 \\
& 0}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5* \\
& a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^ \\
& ^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^ \\
& 4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5 \\
& *a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 -
\end{aligned}$$

$$\begin{aligned}
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 9 \\
& 59375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740* \\
& a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + \\
& 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2*d \\
& ^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2))^{2*d^4} \\
& + 108*(35a^{18}b^2 + 20a^{16}b^4 - 607a^{14}b^6 + 1505a^{12}b^8 - 1570a^{1 \\
& 0}b^{10} + 710a^8b^{12} - 55a^6b^{14} - 43a^4b^{16} + 5a^2b^{18})*((-I*sqrt(3 \\
&) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{1 \\
& 0}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2) \\
& ^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2*d^4 + 10a^{10}b^4*d^4 - 1 \\
& 0a^8b^6*d^4 + 5a^6b^8*d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195* \\
& a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 \\
& - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4* \\
& b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2*d^6 + 10a^{16}b^4*d^6 - \\
& 10a^{14}b^6*d^6 + 5a^{12}b^8*d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 1 \\
& 95a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2 \\
& *d^4 + 10a^{10}b^4*d^4 - 10a^8b^6*d^4 + 5a^6b^8*d^4 - a^4b^{10}d^4)*(a^ \\
& 12*d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - \\
& a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 \\
& - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^ \\
& 14)*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(3 \\
& 5a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2*d^2 \\
& + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2))^3 - 1/106 \\
& 2882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2*d^6 + 1 \\
& 0a^{16}b^4*d^6 - 10a^{14}b^6*d^6 + 5a^{12}b^8*d^6 - a^{10}b^{10}d^6) + 5/1458 \\
& *(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d \\
& ^4 - 5a^{12}b^2*d^4 + 10a^{10}b^4*d^4 - 10a^8b^6*d^4 + 5a^6b^8*d^4 - a \\
& ^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + \\
& 5a^4b^8*d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + \\
& 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320* \\
& a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + \\
& 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4* \\
& d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2))*d^2)/((a^{24} - 10a^{22} \\
& *b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12} \\
& *b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20})*d^4))/((a^{12} \\
& - 5a^{10}b^2 + 10a^8b^4 - 10a^6b^6 + 5a^4b^8 - a^2b^{10})*d^2))*log(7 \\
& 812500a^{16}b^3 + 479187500a^{14}b^5 - 18269500a^{12}b^7 - 548148052a^{10}b \\
& ^9 + 188768060a^8b^{11} - 28709200a^6b^{13} + 2367680a^4b^{15} - 106240a^2 \\
& *b^{17} + 2048b^{19} - 1/162*(3125a^{27} + 42925a^{25}b^2 - 229635a^{23}b^4 + 3
\end{aligned}$$

$$\begin{aligned}
& 85770*a^{21}*b^6 - 204510*a^{19}*b^8 - 125307*a^{17}*b^{10} + 201885*a^{15}*b^{12} - 87 \\
& 360*a^{13}*b^{14} + 14175*a^{11}*b^{16} - 1100*a^9*b^{18} + 32*a^7*b^{20})*((-I*\sqrt{3}) \\
& + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10} \\
& *b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 \\
& - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10 \\
& *a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a \\
& ^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 \\
& - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - \\
& 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 19 \\
& 5*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2* \\
& d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{1 \\
& 2}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
& a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - \\
& 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{1 \\
& 4})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35 \\
& *a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + \\
& 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062 \\
& 882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10 \\
& *a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458* \\
& (35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^ \\
& ^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^ \\
& 4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
& 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + \\
& 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a \\
& ^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + \\
& 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& ^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2*d^4*\sin(d*x + c) + 1 \\
& /3*(218750*a^{21}*b^2 + 8560625*a^{19}*b^4 + 36478724*a^{17}*b^6 + 22289615*a^{15}* \\
& b^8 - 5385700*a^{13}*b^{10} - 80695*a^{11}*b^{12} + 107510*a^9*b^{14} - 10552*a^7*b^{1 \\
& 6} + 320*a^5*b^{18})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 \\
& - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
& 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}* \\
& b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)) \\
& /(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5* \\
& a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2 \\
& ^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{1 \\
& 8}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}* \\
& d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 -
\end{aligned}$$

$$\begin{aligned}
& b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^{3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)} - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2*\sin(dx + c) - 1/972*\sqrt{2}*\sqrt{1/2}*((1625a^{29} + 36046a^{27}b^2 - 163881a^{25}b^4 + 213510a^{23}b^6 + 15855a^{21}b^8 - 274068a^{19}b^{10} + 248289a^{17}b^{12} - 87954a^{15}b^{14} + 11160a^{13}b^{16} - 590a^{11}b^{18} + 8a^9b^{20})*((-I*\sqrt{3} + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^{3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)} - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^{3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)} - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10
\end{aligned}$$

$$\begin{aligned}
& *a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2*d^5*\cos(d*x + c) - 18*(371875*a^{23}*b^2 + 17385825*a^{21}*b^4 + 89633928*a^{19}*b^6 + 76413303*a^{17}*b^8 - 9497193*a^{15}*b^{10} - 2729625*a^{13}*b^{12} + 666195*a^{11}*b^{14} - 60144*a^9*b^{16} + 2784*a^7*b^{18} - 64*a^5*b^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^3*\cos(d*x + c) + 324*(781250*a^{19}*b^2 + 46212500*a^{17}*b^4 + 253989575*a^{15}*b^6 + 187100801*a^{13}*b^8 - 58777420*a^{11}*b^{10} + 6223907*a^9*b^{12} - 286186*a^7*b^{14} + 5816*a^5*b^{16} - 64*a^3*b^{18})*d*\cos(d*x + c) - 3*\sqrt{1/3})*((1625*a^{29} + 36046*a^{27}*b^2 -
\end{aligned}$$

$$\begin{aligned}
& 163881a^{25}b^4 + 213510a^{23}b^6 + 15855a^{21}b^8 - 274068a^{19}b^{10} + 24 \\
& 8289a^{17}b^{12} - 87954a^{15}b^{14} + 11160a^{13}b^{16} - 590a^{11}b^{18} + 8a^9b^{20} \\
& b^{20}) * ((-I\sqrt{3}) + 1) * ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / \\
& (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 \\
& 2 - a^2b^{10}d^2)^2 - 45*(10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10 \\
& a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / (-1/19683*(\\
& 35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 \\
& + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/10 \\
& 62882*(15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + \\
& 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/145 \\
& 8*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6) / ((a^{14} \\
& d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - \\
& a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 \\
& + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320 \\
& a^2b^{12} - 64b^{14})*b^4 / ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I\sqrt{3}) \\
& + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 \\
& - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5 \\
& a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10} \\
& d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 \\
& - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + \\
& 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - \\
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + \\
& 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740 \\
& a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4 / ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + \\
& 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - 5a^{10}b^2d^2 \\
& d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) * d^5 * \\
& \cos(dx + c) - 18*(140000a^{23}b^2 - 620085a^{21}b^4 + 977487a^{19}b^6 - 48 \\
& 4056a^{17}b^8 - 339114a^{15}b^{10} + 510315a^{13}b^{12} - 216285a^{11}b^{14} + 34 \\
& 098a^9b^{16} - 2424a^7b^{18} + 64a^5b^{20}) * d^3 * \cos(dx + c) * \sqrt{(5467500 \\
& a^{12}b^4 + 146179080a^{10}b^6 + 288552780a^8b^8 + 116085960a^6b^{10} - 4 \\
& 5717048a^4b^{12} + 6298560a^2b^{14} - 306180b^{16} - (a^{24} - 10a^{22}b^2 + 4 \\
& 5a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - \\
& 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20}) * ((-I\sqrt{3}) + 1) * ((3 \\
& 5a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 \\
& + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(1 \\
& 0a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 \\
& d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / (-1/19683*(35a^6b^2 + 195a^4b^4 +
\end{aligned}$$

$$\begin{aligned}
& b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^3 - 1/1062882*(15625 a^4 b^4 - 2000 \\
& * a^2 b^6 + 64 b^8)/(a^{20} d^6 - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 \\
& ^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/1458*(35 a^6 b^2 + 195 a^4 b^4 \\
& + 18 a^2 b^6 - 5 b^8)*(10 a^2 b^4 - b^6)/((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 \\
& - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)*(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 \\
& - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882*(15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 \\
& + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14})*b^4/(((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 54*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 \\
& - 5 b^8)/(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2))*d^2)/((a^{24} - 10 a^{22} b^2 + 45 a^{20} b^4 - 120 a^{18} b^6 \\
& + 210 a^{16} b^8 - 252 a^{14} b^{10} + 210 a^{12} b^{12} - 120 a^{10} b^{14} + 45 a^8 b^{16} - 10 a^6 b^{18} + a^4 b^{20})*d^4))*sqrt(-(5670 a^6 b^2 + 31590 a^4 b^4 + 2916 a^2 b^6 - 810 b^8 - (a^{12} - 5 a^{10} b^2 + 10 a^8 b^4 - 10 a^6 b^6 \\
& + 5 a^4 b^8 - a^2 b^{10})*((-I*sqrt(3) + 1))*((35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^2/(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2))^2 - 45*(10 a^2 b^4 - b^6)/(a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4))/(-1/19683*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3/(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2))^3 - 1/1062882*(15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8)/(a^{20} d^6 - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/1458*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)*(10 a^2 b^4 - b^6)/((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)*(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882*(15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14})*b^4/((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3/(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2))^3 - 1/1062882*(15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8)/(a^{20} d^6 - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/1458*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)*(10 a^2 b^4 - b^6)/((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)*(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882*(15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14})*b^4/((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 54*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)/(a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2))
\end{aligned}$$

$$\begin{aligned}
& 2*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
& a^2*b^{10}*d^2) * d^2 - 3*\sqrt{1/3}*(a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 * \\
& ^6 + 5*a^4*b^8 - a^2*b^{10})*d^2*\sqrt{((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 \\
& + 288552780*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2 * \\
& b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210 \\
& *a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 1 \\
& 0*a^6*b^{18} + a^4*b^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2 * \\
& 2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& ^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5 * \\
& a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10} * \\
& d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 \\
& - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10} * \\
& ^2*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - \\
& 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10} * \\
& b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2 * \\
& b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + \\
& 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + \\
& 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 3774 \\
& 0*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} \\
& + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5 * \\
& b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4 * \\
& *b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8 * \\
& ^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12} * \\
& *b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - \\
& 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - \\
& 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + \\
& 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/10628 \\
& 82*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 30747 \\
& 5*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a \\
& ^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12} * \\
& d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2 * \\
& ^2*b^{10}*d^2)^2*d^4 + 108*(35*a^{18}*b^2 + 20*a^{16}*b^4 - 607*a^{14}*b^6 + 1505*a \\
& ^{12}*b^8 - 1570*a^{10}*b^{10} + 710*a^8*b^{12} - 55*a^6*b^{14} - 43*a^4*b^{16} + 5*a^2 * \\
& *b^{18})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2 \\
& / (a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
& ^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 1 \\
& 0*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683 * \\
& (35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^
\end{aligned}$$

$$\begin{aligned}
& 2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2)/((a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20})*d^4))/((a^{12} - 5a^{10}b^2 + 10a^8b^4 - 10a^6b^6 + 5a^4b^8 - a^2b^{10})*d^2)) + 1/54*sqrt(1/3)*((3125a^{27} + 42925a^{25}b^2 - 229635a^{23}b^4 + 385770a^{21}b^6 - 204510a^{19}b^8 - 125307a^{17}b^{10} + 201885a^{15}b^{12} - 87360a^{13}b^{14} + 14175a^{11}b^{16} - 1100a^9b^{18} + 32a^7b^{20})*((-I*sqrt(3) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}
\end{aligned}$$

$$\begin{aligned}
& b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 6 \\
& 4b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{1/3} + 729(I\sqrt{3} + 1)(-1/1968 \\
& 3(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2* \\
& d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1 \\
& /1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2*d^6 \\
& + 10a^{16}b^4*d^6 - 10a^{14}b^6*d^6 + 5a^{12}b^8*d^6 - a^{10}b^{10}d^6) + 5/ \\
& 1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a \\
& ^{14}d^4 - 5a^{12}b^2*d^4 + 10a^{10}b^4*d^4 - 10a^8b^6*d^4 + 5a^6b^8*d^4 \\
& - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^ \\
& ^2 + 5a^4b^8*d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 959375a^{12}*b \\
& ^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2 \\
& 320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{1/3} + 54*(35a^6b \\
& ^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8* \\
& b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2))*d^4\sin(dx + c) \\
& - 54(109375a^{21}b^2 - 584750a^{19}b^4 + 1287601a^{17}b^6 - 1495040a^{15}b \\
& ^8 + 971185a^{13}b^{10} - 345110a^{11}b^{12} + 61855a^9b^{14} - 5276a^7b^{16} + \\
& 160a^5b^{18})d^2\sin(dx + c))*\sqrt{(5467500a^{12}b^4 + 146179080a^{10}b^6 \\
& + 288552780a^8b^8 + 116085960a^6b^{10} - 45717048a^4b^{12} + 6298560a^ \\
& 2b^{14} - 306180b^{16} - (a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 2 \\
& 10a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - \\
& 10a^6b^{18} + a^4b^{20})*((-I\sqrt{3} + 1))*((35a^6b^2 + 195a^4b^4 + 18* \\
& a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6 \\
& *d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2)^2 - 45(10a^2b^4 - b^6)/(a^{14}d^4 - \\
& 5a^{12}b^2*d^4 + 10a^{10}b^4*d^4 - 10a^8b^6*d^4 + 5a^6b^8*d^4 - a^4b^{1 \\
& 0}d^4))/(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d \\
& ^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2 \\
& *b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 \\
& - 5a^{18}b^2*d^6 + 10a^{16}b^4*d^6 - 10a^{14}b^6*d^6 + 5a^{12}b^8*d^6 - a^{1 \\
& 0}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^ \\
& 2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2*d^4 + 10a^{10}b^4*d^4 - 10a^8b^6*d^4 \\
& + 5a^6b^8*d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^ \\
& 2 - 10a^6b^6*d^2 + 5a^4b^8*d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} \\
& + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37 \\
& 740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{1/3} \\
&) + 729(I\sqrt{3} + 1)(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2*d^2 + 10a^8b^4*d^2 - 10a^6b^6*d^2 + 5a \\
& ^4b^8*d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64 \\
& b^8)/(a^{20}d^6 - 5a^{18}b^2*d^6 + 10a^{16}b^4*d^6 - 10a^{14}b^6*d^6 + 5a^ \\
& 12b^8*d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6
\end{aligned}$$

$$\begin{aligned}
& - 5*b^8)*(10*a^2*b^4 - b^6)/((a^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d^4 \\
& - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^10*d^4)*(a^12*d^2 - 5*a^10*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/106 \\
& 2882*(15625*a^14 + 959375*a^12*b^2 + 24861*a^10*b^4 - 1094705*a^8*b^6 + 307 \\
& 475*a^6*b^8 - 37740*a^4*b^10 + 2320*a^2*b^12 - 64*b^14)*b^4/((a^2 - b^2)^10 \\
& *a^10*d^6))^(1/3) + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^1 \\
& 2*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
& a^2*b^10*d^2))^2*d^4 + 108*(35*a^18*b^2 + 20*a^16*b^4 - 607*a^14*b^6 + 1505 \\
& *a^12*b^8 - 1570*a^10*b^10 + 710*a^8*b^12 - 55*a^6*b^14 - 43*a^4*b^16 + 5*a \\
& ^2*b^18)*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8) \\
& ^2/(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8 \\
& *d^2 - a^2*b^10*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^14*d^4 - 5*a^12*b^2*d^4 + \\
& 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^10*d^4))/(-1/1968 \\
& 3*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^12*d^2 - 5*a^10*b^2* \\
& d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2))^3 - 1 \\
& /1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^20*d^6 - 5*a^18*b^2*d^6 \\
& + 10*a^16*b^4*d^6 - 10*a^14*b^6*d^6 + 5*a^12*b^8*d^6 - a^10*b^10*d^6) + 5/ \\
& 1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a \\
& ^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 \\
& - a^4*b^10*d^4)*(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d \\
& ^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/1062882*(15625*a^14 + 959375*a^12*b \\
& ^2 + 24861*a^10*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^10 + 2 \\
& 320*a^2*b^12 - 64*b^14)*b^4/((a^2 - b^2)^10*a^10*d^6))^(1/3) + 729*(I*sqrt(\\
& 3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^12*d \\
& ^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2 \\
& *b^10*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^20*d^6 \\
& - 5*a^18*b^2*d^6 + 10*a^16*b^4*d^6 - 10*a^14*b^6*d^6 + 5*a^12*b^8*d^6 - a^1 \\
& 0*b^10*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^ \\
& 2*b^4 - b^6)/((a^14*d^4 - 5*a^12*b^2*d^4 + 10*a^10*b^4*d^4 - 10*a^8*b^6*d^4 \\
& + 5*a^6*b^8*d^4 - a^4*b^10*d^4)*(a^12*d^2 - 5*a^10*b^2*d^2 + 10*a^8*b^4*d^ \\
& 2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/1062882*(15625*a^14 \\
& + 959375*a^12*b^2 + 24861*a^10*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37 \\
& 740*a^4*b^10 + 2320*a^2*b^12 - 64*b^14)*b^4/((a^2 - b^2)^10*a^10*d^6))^(1/3 \\
&) + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^12*d^2 - 5*a^10*b \\
& ^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2))*d \\
& ^2)/((a^24 - 10*a^22*b^2 + 45*a^20*b^4 - 120*a^18*b^6 + 210*a^16*b^8 - 252* \\
& a^14*b^10 + 210*a^12*b^12 - 120*a^10*b^14 + 45*a^8*b^16 - 10*a^6*b^18 + a^4 \\
& *b^20)*d^4) + 18*(1015625*a^15*b^4 - 32411250*a^13*b^6 - 28669215*a^11*b^8 \\
& + 10745945*a^9*b^10 - 1431207*a^7*b^12 + 88140*a^5*b^14 - 2080*a^3*b^16)*s
\end{aligned}$$

$$\begin{aligned}
& \ln(dx + c) + \sqrt{2} \sqrt{1/2} * ((a^6 - 2a^4b^2 + a^2b^4) * d * \cos(dx + c) \\
&) - ((a^5b - 2a^3b^3 + ab^5) * d * \cos(dx + c))^3 - (a^5b - 2a^3b^3 + a \\
& b^5) * d * \cos(dx + c) * \sin(dx + c) * \sqrt{-(5670a^6b^2 + 31590a^4b^4 + 29 \\
& 16a^2b^6 - 810b^8 - (a^{12} - 5a^{10}b^2 + 10a^8b^4 - 10a^6b^6 + 5a^4 \\
& * b^8 - a^2b^{10}) * ((-I * \sqrt{3}) + 1) * ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5 \\
& * a^4b^8d^2 - a^2b^{10}d^2)^2 - 45 * (10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b \\
& ^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / \\
& (-1/19683 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a \\
& ^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2 \\
&)^3 - 1/1062882 * (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18} \\
& * b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6 \\
&) + 5/1458 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) * (10a^2b^4 - \\
& b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6 \\
& * b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^ \\
& ^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 * (15625a^{14} + 95937 \\
& 5a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4 * \\
& b^{10} + 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} * a^{10}d^6))^{(1/3)} + 729 * \\
& (I * \sqrt{3}) + 1) * (-1/19683 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 \\
& / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 \\
& ^2 - a^2b^{10}d^2)^3 - 1/1062882 * (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a \\
& ^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 \\
& ^6 - a^{10}b^{10}d^6) + 5/1458 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8 \\
&) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8 \\
& * b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^ \\
& 8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 * (15 \\
& 625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6 * \\
& b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} * a^{10}d^6 \\
&))^{(1/3)} + 54 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& * d^2) * d^2 + 3 * \sqrt{1/3} * (a^{12} - 5a^{10}b^2 + 10a^8b^4 - 10a^6b^6 + 5a \\
& ^4b^8 - a^2b^{10}) * d^2 * \sqrt{(5467500a^{12}b^4 + 146179080a^{10}b^6 + 288552 \\
& 780a^8b^8 + 116085960a^6b^{10} - 45717048a^4b^{12} + 6298560a^2b^{14} - 3 \\
& 06180b^{16} - (a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 \\
& - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} \\
& + a^4b^{20}) * ((-I * \sqrt{3}) + 1) * ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a \\
& ^4b^8d^2 - a^2b^{10}d^2)^2 - 45 * (10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2 \\
& * d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / (-
\end{aligned}$$

$$\begin{aligned}
&^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6* \\
&*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375* \\
&a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^ \\
&10 + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35 \\
&*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 1 \\
&0*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^{2*d^4}*sin(d \\
&*x + c) - 1/3*(218750*a^{21}*b^2 + 8560625*a^{19}*b^4 + 36478724*a^{17}*b^6 + 222 \\
&89615*a^{15}*b^8 - 5385700*a^{13}*b^{10} - 80695*a^{11}*b^{12} + 107510*a^9*b^{14} - 10 \\
&552*a^7*b^{16} + 320*a^5*b^{18})*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + \\
&18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6* \\
&*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^ \\
&4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4 \\
&*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^ \\
&12*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
&a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}* \\
&d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - \\
&a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(1 \\
&0*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6 \\
&*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^ \\
&4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625* \\
&a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 \\
&- 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{ \\
&(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^ \\
&6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
&5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 \\
&+ 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + \\
&5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2* \\
&*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4* \\
&d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2 \\
&*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1 \\
&/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + \\
&307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2) \\
&)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/ \\
&(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^ \\
&2 - a^2*b^{10}*d^2))*d^2*sin(d*x + c) + 1/972*sqrt(2)*sqrt(1/2)*((1625*a^{29} + \\
&36046*a^{27}*b^2 - 163881*a^{25}*b^4 + 213510*a^{23}*b^6 + 15855*a^{21}*b^8 - 2740 \\
&68*a^{19}*b^{10} + 248289*a^{17}*b^{12} - 87954*a^{15}*b^{14} + 11160*a^{13}*b^{16} - 590*a \\
&^{11}*b^{18} + 8*a^9*b^{20})*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^ \\
&2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d
\end{aligned}$$

$$\begin{aligned}
&^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5* \\
&a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}* \\
&d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 \\
&- 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}* \\
&d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - \\
&5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}* \\
&b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2* \\
&b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + \\
&5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
&- 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + \\
&959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 3774 \\
&0*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} \\
&+ 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5* \\
&b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4* \\
&b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8 \\
&)^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12} \\
&*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - \\
&5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - \\
&10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + \\
&10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/10628 \\
&82*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 30747 \\
&5*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a \\
&^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}* \\
&d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2* \\
&b^{10}*d^2)^2*d^5*cos(d*x + c) - 18*(371875*a^{23}*b^2 + 17385825*a^{21}*b^4 + \\
&89633928*a^{19}*b^6 + 76413303*a^{17}*b^8 - 9497193*a^{15}*b^{10} - 2729625*a^{13}*b \\
&^{12} + 666195*a^{11}*b^{14} - 60144*a^9*b^{16} + 2784*a^7*b^{18} - 64*a^5*b^{20})*((-I \\
&*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 \\
&- 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}* \\
&d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4* \\
&d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 \\
&+ 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8* \\
&b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(156 \\
&25*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4* \\
&d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6* \\
&b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a \\
&^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}* \\
&d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8* \\
&d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^
\end{aligned}$$

$$\begin{aligned}
& 10*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} \\
& - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/1 \\
& 9683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b \\
& ^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 \\
& - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2* \\
& d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + \\
& 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/ \\
& ((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8* \\
& d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^ \\
& 6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{1 \\
& 2}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} \\
& + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^ \\
& 6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a \\
& ^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^3*\cos(d*x + \\
& c) + 324*(781250*a^{19}*b^2 + 46212500*a^{17}*b^4 + 253989575*a^{15}*b^6 + 187100 \\
& 801*a^{13}*b^8 - 58777420*a^{11}*b^{10} + 6223907*a^9*b^{12} - 286186*a^7*b^{14} + 58 \\
& 16*a^5*b^{16} - 64*a^3*b^{18})*d*\cos(d*x + c) + 3*\sqrt{1/3}*((1625*a^{29} + 36046 \\
& *a^{27}*b^2 - 163881*a^{25}*b^4 + 213510*a^{23}*b^6 + 15855*a^{21}*b^8 - 274068*a^{1 \\
& 9}*b^{10} + 248289*a^{17}*b^{12} - 87954*a^{15}*b^{14} + 11160*a^{13}*b^{16} - 590*a^{11}*b^ \\
& 18 + 8*a^9*b^{20})*((-I*\sqrt{3} + 1))*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 \\
& - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5 \\
& *a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b \\
& ^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/ \\
& (-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a \\
& ^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^ \\
& 2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18} \\
& *b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d \\
& ^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - \\
& b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6 \\
& *b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a \\
& ^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 95937 \\
& 5*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4* \\
& b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729* \\
& (I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3 \\
& /((a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d \\
& ^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a \\
& ^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d \\
& ^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8 \\
&)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8
\end{aligned}$$

$$\begin{aligned}
& *b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^10*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^10*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^5*\cos(dx + c) - 18*(140000*a^{23}*b^2 - 620085*a^{21}*b^4 + 977487*a^{19}*b^6 - 484056*a^{17}*b^8 - 339114*a^{15}*b^{10} + 510315*a^{13}*b^{12} - 216285*a^{11}*b^{14} + 34098*a^9*b^{16} - 2424*a^7*b^{18} + 64*a^5*b^{20})*d^3*\cos(dx + c))*\sqrt{(5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*((-I*\sqrt{3} + 1))*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2*d^4 + 108*(35*a^{18}
\end{aligned}$$

$$\begin{aligned}
& *b^2 + 20*a^{16}*b^4 - 607*a^{14}*b^6 + 1505*a^{12}*b^8 - 1570*a^{10}*b^{10} + 710*a^8*b^{12} - 55*a^6*b^{14} - 43*a^4*b^{16} + 5*a^2*b^{18})*((-I*\sqrt{3}) + 1)*((35*a^6 \\
& *b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10* \\
& a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2 \\
& *b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + \\
& 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2 \\
& *b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d \\
& ^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2* \\
& b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^ \\
& 6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18 \\
& *a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}* \\
& b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10} \\
& *b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) \\
& - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^ \\
& ^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - \\
& b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195 \\
& *a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^ \\
& 2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4 \\
& *b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 \\
& - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + \\
& 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^ \\
& 2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a \\
& ^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
& - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 \\
& - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^ \\
& ^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + \\
& 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^ \\
& 6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^2)/((a^{24} - 10*a^{22}*b^2 + 45*a^{20}* \\
& b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{1 \\
& 0}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*d^4))*sqrt(-(5670*a^6*b^2 + \\
& 31590*a^4*b^4 + 2916*a^2*b^6 - 810*b^8 - (a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - \\
& 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^ \\
& 4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - \\
& 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(\\
& a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^ \\
& 4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8 \\
&)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^ \\
& 8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8) \\
& / (a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^
\end{aligned}$$

$$\begin{aligned}
& 8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8) \\
& *(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 \\
& + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 \\
& + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} \\
& + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 \\
& + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) \\
& + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 \\
& - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 \\
& + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} \\
& + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^2 + 3*sqrt(1/3)*(a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 \\
& + 5*a^4*b^8 - a^2*b^{10})*d^2*sqrt((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^{10} \\
& - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 \\
& + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*((-I*sqrt(3) + 1) \\
& *((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 \\
& - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))^3 \\
& /((a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 \\
& - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) \\
& + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 \\
& - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 \\
& + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{(1/3)} \\
& + 729*(I*sqrt(3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)
\end{aligned}$$

$$\begin{aligned}
& d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2 \\
& *b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 \\
& + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 1 \\
& 8a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10} \\
& *b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10} \\
& b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2) \\
&) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8 \\
& b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 \\
& - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5 \\
& b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8 \\
& d^2 - a^2b^{10}d^2))^2*d^4 + 108*(35a^{18}b^2 + 20a^{16}b^4 - 607a^{14}b^6 \\
& + 1505a^{12}b^8 - 1570a^{10}b^{10} + 710a^8b^{12} - 55a^6b^{14} - 43a^4b^{16} \\
& + 5a^2b^{18})*((-I*sqrt(3) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + \\
& 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12} \\
& b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) \\
& /(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^3/(a^{12}d^2 - 5 \\
& a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2 \\
& ^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18} \\
& b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10} \\
& d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - \\
& b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6 \\
& b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10 \\
& a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 9593 \\
& 75a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4 \\
& *b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729 \\
& *(I*sqrt(3) + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^ \\
& 3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8 \\
& d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(\\
& a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8 \\
& d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8 \\
&)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8 \\
& b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8 \\
& b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(1 \\
& 5625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6 \\
& *b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10} \\
& d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& d^2))/((a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8
\end{aligned}$$

$$\begin{aligned}
&^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b \\
&^{18} + a^4*b^{20})*d^4)))/((a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^ \\
&4*b^8 - a^2*b^{10})*d^2)) + 1/54*sqrt(1/3)*((3125*a^{27} + 42925*a^{25}*b^2 - 229 \\
&635*a^{23}*b^4 + 385770*a^{21}*b^6 - 204510*a^{19}*b^8 - 125307*a^{17}*b^{10} + 20188 \\
&5*a^{15}*b^{12} - 87360*a^{13}*b^{14} + 14175*a^{11}*b^{16} - 1100*a^9*b^{18} + 32*a^7*b^ \\
&20)*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a \\
&^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 \\
&- a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a \\
&^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4))/(-1/19683*(35 \\
&*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + \\
&10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^3 - 1/1062 \\
&882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10 \\
&*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458* \\
&(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d \\
&^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^ \\
&4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
&5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + \\
&24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a \\
&^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*sqrt(3) + \\
&1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - \\
&5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10} \\
&*d^2))^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a \\
&^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{1 \\
&0}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 \\
&- b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5* \\
&a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 1 \\
&0*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 95 \\
&9375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a \\
&^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 5 \\
&4*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^ \\
&2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^4*si \\
&n(d*x + c) - 54*(109375*a^{21}*b^2 - 584750*a^{19}*b^4 + 1287601*a^{17}*b^6 - 149 \\
&5040*a^{15}*b^8 + 971185*a^{13}*b^{10} - 345110*a^{11}*b^{12} + 61855*a^9*b^{14} - 5276 \\
&*a^7*b^{16} + 160*a^5*b^{18})*d^2*sin(d*x + c))*sqrt((5467500*a^{12}*b^4 + 146179 \\
&080*a^{10}*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + \\
&6298560*a^2*b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a \\
&^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45 \\
&*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 195*a^ \\
&4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 -
\end{aligned}$$

$$\begin{aligned}
& 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45(10a^2b^4 - b^6)/(\\
& a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 \\
& 4 - a^4b^{10}d^4))/(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \\
&)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8 \\
& 8d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8) \\
& /(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8 \\
& 8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b \\
& b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a \\
& a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10 \\
& *a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882* \\
& (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a \\
& ^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10} \\
& *d^6))^{(1/3)} + 729*(I*\text{sqrt}(3) + 1)*(-1/19683(35a^6b^2 + 195a^4b^4 + 18 \\
& *a^2b^6 - 5b^8))^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6 \\
& 6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a \\
& ^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6 \\
& *d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + \\
& 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^ \\
& 10b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a \\
& ^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^ \\
& 2)) - 1/1062882(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^ \\
& 8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^ \\
& 2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4 \\
& *b^8d^2 - a^2b^{10}d^2))^2*d^4 + 108(35a^{18}b^2 + 20a^{16}b^4 - 607a^{14} \\
& *b^6 + 1505a^{12}b^8 - 1570a^{10}b^{10} + 710a^8b^{12} - 55a^6b^{14} - 43a^4 \\
& *b^{16} + 5a^2b^{18})*((-I*\text{sqrt}(3) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b \\
& ^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{1 \\
& 2}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \\
&))/(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8))^3/(a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& *d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a \\
& ^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{1 \\
& 0}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 \\
& - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a \\
& a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 1 \\
& 0a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 95 \\
& 9375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a
\end{aligned}$$

$$\begin{aligned}
&^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 7 \\
&29*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8 \\
&)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8 \\
&)*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8) \\
&/ (a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8 \\
&)*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5* \\
&b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10* \\
&a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10 \\
&*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882* \\
&(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a \\
&^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10} \\
&*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 \\
&- 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10} \\
&*d^2))*d^2)/((a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16} \\
&*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6 \\
&*b^{18} + a^4*b^{20})*d^4) - 18*(1015625*a^{15}*b^4 - 32411250*a^{13}*b^6 - 286692 \\
&15*a^{11}*b^8 + 10745945*a^9*b^{10} - 1431207*a^7*b^{12} + 88140*a^5*b^{14} - 2080* \\
&a^3*b^{16})*\sin(d*x + c) - \sqrt{2}*\sqrt{1/2}*((a^6 - 2*a^4*b^2 + a^2*b^4)*d* \\
&\cos(d*x + c) - ((a^5*b - 2*a^3*b^3 + a*b^5)*d*\cos(d*x + c))^3 - (a^5*b - 2*a \\
&^3*b^3 + a*b^5)*d*\cos(d*x + c))*\sin(d*x + c))*\sqrt{-(5670*a^6*b^2 + 31590*a \\
&^4*b^4 + 2916*a^2*b^6 - 810*b^8 - (a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6* \\
&b^6 + 5*a^4*b^8 - a^2*b^{10})*((-I*\sqrt{3} + 1)*((35*a^6*b^2 + 195*a^4*b^4 + \\
&18*a^2*b^6 - 5*b^8))^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6* \\
&b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 \\
&- 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4* \\
&b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8))^3/(a^{12} \\
&*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - \\
&a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d \\
&^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - \\
&a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10 \\
&*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6* \\
&d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4 \\
&*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a \\
&^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - \\
&37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(\\
&1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 \\
&- 5*b^8))^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + \\
&5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + \\
&64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5
\end{aligned}$$

$$\begin{aligned}
& *a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2 - 3*sqrt(1/3)*(a^{12} - 5a^{10}b^2 + 10a^8b^4 - 10a^6b^6 + 5a^4b^8 - a^2b^{10})*d^2*sqrt((5467500a^{12}b^4 + 146179080a^{10}b^6 + 288552780a^8b^8 + 116085960a^6b^{10} - 45717048a^4b^{12} + 6298560a^2b^{14} - 306180b^{16} - (a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20})*((-I*sqrt(3) + 1))*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2) -
\end{aligned}$$

$$\begin{aligned}
& a^2 b^{10} d^2)^2 d^4 + 108(35 a^{18} b^2 + 20 a^{16} b^4 - 607 a^{14} b^6 + 150 \\
& 5 a^{12} b^8 - 1570 a^{10} b^{10} + 710 a^8 b^{12} - 55 a^6 b^{14} - 43 a^4 b^{16} + 5 a^2 b^{18}) \\
& ((-I \sqrt{3} + 1) * ((35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) \\
&)^2 / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 \\
& 8 d^2 - a^2 b^{10} d^2)^2 - 45 * (10 a^2 b^4 - b^6) / (a^{14} d^4 - 5 a^{12} b^2 d^4 \\
& + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)) / (-1 / 196 \\
& 83 * (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} d^2 - 5 a^{10} b^2 \\
& * d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^3 - \\
& 1 / 1062882 * (15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 - 5 a^{18} b^2 d^6 \\
& + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5 \\
& / 1458 * (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 b^4 - b^6) / ((\\
& a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 \\
& 4 - a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 \\
& d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1 / 1062882 * (15625 a^{14} + 959375 a^{12} \\
& b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + \\
& 2320 a^2 b^{12} - 64 b^{14}) * b^4 / ((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 729 * (I \sqrt{3} \\
& (3) + 1) * (-1 / 19683 * (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} \\
& d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 \\
& b^{10} d^2)^3 - 1 / 1062882 * (15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 \\
& - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} \\
& b^{10} d^6) + 5 / 1458 * (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 \\
& b^4 - b^6) / ((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 \\
& 4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 \\
& ^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1 / 1062882 * (15625 a^{14} \\
& + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 3 \\
& 7740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) * b^4 / ((a^2 - b^2)^{10} a^{10} d^6))^{(1/ \\
& 3)} + 54 * (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) / (a^{12} d^2 - 5 a^{10} \\
& b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) * \\
& d^2) / ((a^{24} - 10 a^{22} b^2 + 45 a^{20} b^4 - 120 a^{18} b^6 + 210 a^{16} b^8 - 252 \\
& * a^{14} b^{10} + 210 a^{12} b^{12} - 120 a^{10} b^{14} + 45 a^8 b^{16} - 10 a^6 b^{18} + a^4 \\
& 4 b^{20}) * d^4)) / ((a^{12} - 5 a^{10} b^2 + 10 a^8 b^4 - 10 a^6 b^6 + 5 a^4 b^8 - \\
& a^2 b^{10}) * d^2)) * \log(-7812500 a^{16} b^3 - 479187500 a^{14} b^5 + 18269500 a^{12} \\
& b^7 + 548148052 a^{10} b^9 - 188768060 a^8 b^{11} + 28709200 a^6 b^{13} - 2367680 \\
& * a^4 b^{15} + 106240 a^2 b^{17} - 2048 b^{19} + 1 / 162 * (3125 a^{27} + 42925 a^{25} b^2 \\
& - 229635 a^{23} b^4 + 385770 a^{21} b^6 - 204510 a^{19} b^8 - 125307 a^{17} b^{10} + \\
& 201885 a^{15} b^{12} - 87360 a^{13} b^{14} + 14175 a^{11} b^{16} - 1100 a^9 b^{18} + 32 a^7 \\
& b^{20}) * ((-I \sqrt{3} + 1) * ((35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) \\
&)^2 / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 \\
& 8 d^2 - a^2 b^{10} d^2)^2 - 45 * (10 a^2 b^4 - b^6) / (a^{14} d^4 - 5 a^{12} b^2 d^4
\end{aligned}$$

$$\begin{aligned}
& + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)/(-1/196 \\
& 83*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2 \\
& *d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - \\
& 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 \\
& + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5 \\
& /1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((\\
& a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 \\
& - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}* \\
& b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + \\
& 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*sqrt \\
& (3) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}* \\
& d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2* \\
& b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 \\
& - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}* \\
& b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - \\
& b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 \\
& - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 \\
& + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + \\
& 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - \\
& 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + \\
& 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}* \\
& b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))^{2* \\
& d^4}*sin(d*x + c) - 1/3*(218750*a^{21}*b^2 + 8560625*a^{19}*b^4 + 36478724*a^{17}* \\
& b^6 + 22289615*a^{15}*b^8 - 5385700*a^{13}*b^{10} - 80695*a^{11}*b^{12} + 107510*a^9* \\
& b^{14} - 10552*a^7*b^{16} + 320*a^5*b^{18})*((-I*sqrt(3) + 1)*((35*a^6*b^2 + 19 \\
& 5*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 \\
& - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6) \\
& /((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8* \\
& d^4 - a^4*b^{10}*d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5* \\
& b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4* \\
& b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64* \\
& b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}* \\
& b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - \\
& 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - \\
& 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 \\
& + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062 \\
& 882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 3074 \\
& 75*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*
\end{aligned}$$

$$\begin{aligned}
& a^{10}d^6)^{1/3} + 729(I\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 \\
& + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6 \\
& b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 20 \\
& 00a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14} \\
& b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 \\
& + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 1 \\
& 0a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 109470 \\
& 5a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/ \\
& ((a^2 - b^2)^{10}a^{10}d^6)^{1/3} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5 \\
& a^4b^8d^2 - a^2b^{10}d^2))*d^2*\sin(dx + c) - 1/972*\sqrt{2}*\sqrt{1/2}*((\\
& 1625a^{29} + 36046a^{27}b^2 - 163881a^{25}b^4 + 213510a^{23}b^6 + 15855a^{21} \\
& b^8 - 274068a^{19}b^{10} + 248289a^{17}b^{12} - 87954a^{15}b^{14} + 11160a^{13}b \\
& ^{16} - 590a^{11}b^{18} + 8a^9b^{20})*((-I\sqrt{3} + 1)*((35a^6b^2 + 195a^4b^4 \\
& b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 1 \\
& 0a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10a^2b^4 - b^6)/(a^{14} \\
& d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 \\
& - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 \\
& /((a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 \\
& d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(\\
& a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 \\
& d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \\
& *(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8 \\
& b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8 \\
& b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(1 \\
& 5625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6 \\
& b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d \\
& ^6)^{1/3} + 729*(I\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2 \\
& b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2 \\
& b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 \\
& + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 1 \\
& 8a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10} \\
& b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10} \\
& b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2) \\
&) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8 \\
& b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2
\end{aligned}$$

$$\begin{aligned}
& -b^2)^{10}a^{10}d^6)^{1/3} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^2*d^5*\cos(d*x + c) - 18*(371875*a^{23}b^2 + 17385825*a^{21}b^4 + 89633928*a^{19}b^6 + 76413303*a^{17}b^8 - 9497193*a^{15}b^{10} - 2729625*a^{13}b^{12} + 666195*a^{11}b^{14} - 60144*a^9b^{16} + 2784*a^7b^{18} - 64*a^5b^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}d^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 + 5*a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 + 307475*a^6b^8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{1/3} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}d^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 + 5*a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 + 307475*a^6b^8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{1/3} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2))*d^3*\cos(d*x + c) + 324*(781250*a^{19}b^2 + 46212500*a^{17}b^4 + 253989575*a^{15}b^6 + 187100801*a^{13}b^8 - 58777420*a^{11}b^{10} + 6223907*a^9b^{12} - 286186*a^7b^{14} + 5816*a^5b^{16} - 64*a^3b^{18})*d*\cos(d*x + c) - 3*\sqrt{1/3}*((1625*a^{29} + 36046*a^{27}b^2 - 163881*a^{25}b^4 + 213510*a^{23}b^6 + 15855*a^{21}b^8 - 274068*a^{19}b^{10} + 248289*a^{17}b^{12} - 87954*a^{15}b^{14} + 11160*a^{13}b^{16} - 590*a^{11}b^{18} + 8*a^9b^{20})*((-I*\sqrt{3}) + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}d^4
\end{aligned}$$

$$\begin{aligned}
& - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) / (-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 729 * (I * sqrt(3) + 1) * (-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) * (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) * b^4 / ((a^2 - b^2)^{10} a^{10} d^6))^{(1/3)} + 54 * (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) * d^5 * cos(dx + c) - 18 * (140000a^{23}b^2 - 620085a^{21}b^4 + 977487a^{19}b^6 - 484056a^{17}b^8 - 339114a^{15}b^{10} + 510315a^{13}b^{12} - 216285a^{11}b^{14} + 34098a^9b^{16} - 2424a^7b^{18} + 64a^5b^{20}) * d^3 * cos(dx + c)) * sqrt((5467500a^{12}b^4 + 146179080a^{10}b^6 + 288552780a^8b^8 + 116085960a^6b^{10} - 45717048a^4b^{12} + 6298560a^2b^{14} - 306180b^{16} - (a^{24} - 10a^{22}b^2 + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20})) * ((-I * sqrt(3) + 1) * ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45 * (10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) / (-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882 * (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) * (10a^2b^4 - b^6) / ((a^{14}d^4
\end{aligned}$$

$$\begin{aligned}
& - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 \cdot (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) \cdot b^4 / ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729 \cdot (I\sqrt{3} + 1) \cdot (-1/19683 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882 \cdot (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 \cdot (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) \cdot b^4 / ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 \cdot d^4 + 108 \cdot (35a^{18}b^2 + 20a^{16}b^4 - 607a^{14}b^6 + 1505a^{12}b^8 - 1570a^{10}b^{10} + 710a^8b^{12} - 55a^6b^{14} - 43a^4b^{16} + 5a^2b^{18}) \cdot ((-I\sqrt{3}) + 1) \cdot ((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45 \cdot (10a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) / (-1/19683 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882 \cdot (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882 \cdot (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) \cdot b^4 / ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729 \cdot (I\sqrt{3} + 1) \cdot (-1/19683 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882 \cdot (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))
\end{aligned}$$

$$\begin{aligned}
& ^{10}d^4)(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a \\
& ^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 248 \\
& 61a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2* \\
& b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195 \\
& *a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 \\
& - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2/((a^{24} - 10a^{22}b^2 \\
& + 45a^{20}b^4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{1 \\
& 2 - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20})*d^4)))*sqrt(-(567 \\
& 0a^6b^2 + 31590a^4b^4 + 2916a^2b^6 - 810b^8 - (a^{12} - 5a^{10}b^2 + 1 \\
& 0a^8b^4 - 10a^6b^6 + 5a^4b^8 - a^2b^{10})*((-I*sqrt(3) + 1)*((35a^6b \\
& ^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^ \\
& 8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b \\
& ^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5 \\
& *a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2* \\
& b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^ \\
& 6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 \\
& + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a \\
& ^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^ \\
& 4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b \\
& ^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - \\
& 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 \\
& + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b \\
& ^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/19683*(35a^6b^2 + 195a \\
& ^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 \\
& - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b \\
& ^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - \\
& 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 19 \\
& 5a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2* \\
& d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{1 \\
& 2}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - \\
& a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - \\
& 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{1 \\
& 4})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18 \\
& *a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6* \\
& d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2 - 3*sqrt(1/3)*(a^{12} - 5a^{10}b^2 + \\
& 10a^8b^4 - 10a^6b^6 + 5a^4b^8 - a^2b^{10})*d^2*sqrt((5467500a^{12}b^4 \\
& + 146179080a^{10}b^6 + 288552780a^8b^8 + 116085960a^6b^{10} - 45717048a \\
& ^4b^{12} + 6298560a^2b^{14} - 306180b^{16} - (a^{24} - 10a^{22}b^2 + 45a^{20}b^
\end{aligned}$$

$$\begin{aligned}
 &4 - 120a^{18}b^6 + 210a^{16}b^8 - 252a^{14}b^{10} + 210a^{12}b^{12} - 120a^{10}b^{14} + 45a^8b^{16} - 10a^6b^{18} + a^4b^{20}) \cdot ((-I\sqrt{3} + 1) \cdot ((35a^6b^2 \\
 &+ 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 \\
 &- 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45 \cdot (10a^2b^4 \\
 &- b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 \\
 &- a^4b^{10}d^4)) / (-1/19683 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
 &- 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + \\
 &5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882 \cdot (15625a^4b^4 - 2000a^2b^6 \\
 &+ 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + \\
 &5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2 \\
 &b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 \\
 &- 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 - 5a^{10}b^2d^2 \\
 &+ 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1 \\
 &/1062882 \cdot (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + \\
 &307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) \cdot b^4 / ((a^2 - b^2 \\
 &)^{10} \cdot a^{10}d^6))^{1/3} + 729 \cdot (I\sqrt{3} + 1) \cdot (-1/19683 \cdot (35a^6b^2 + 195a^4 \\
 &b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - \\
 &10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882 \cdot (15625a^4b^4 \\
 &- 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10 \\
 &a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \cdot (35a^6b^2 + 195a^4 \\
 &a^4b^4 + 18a^2b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 \\
 &+ 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \cdot (a^{12}d^2 \\
 &- 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) \\
 &- 1/1062882 \cdot (15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + \\
 &307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14}) \cdot b^4 / ((a^2 - b^2)^{10} \\
 &\cdot a^{10}d^6))^{1/3} + 54 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 \\
 &- 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 \\
 &\cdot d^4 + 108 \cdot (35a^{18}b^2 + 20a^{16}b^4 - 607a^{14}b^6 + 1505a^{12}b^8 - 1570a^{10}b^{10} \\
 &+ 710a^8b^{12} - 55a^6b^{14} - 43a^4b^{16} + 5a^2b^{18}) \cdot ((-I\sqrt{3} + 1) \cdot ((35a^6b^2 + 195a^4b^4 \\
 &+ 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
 &+ 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45 \cdot (10a^2b^4 - b^6) / (a^{14}d^4 \\
 &- 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)) \\
 &/ (-1/19683 \cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 \\
 &- 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 \\
 &- 1/1062882 \cdot (15625a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 \\
 &+ 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458 \\
 &\cdot (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \cdot (10a^2b^4 - b^6) / ((a^{14}d^4 \\
 &- 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))
 \end{aligned}$$

$$\begin{aligned}
& *d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)*d^2)/((a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*d^4))/((a^{12} - 5*a^{10}*b^2 + 10*a^8*b^4 - 10*a^6*b^6 + 5*a^4*b^8 - a^2*b^{10})*d^2)) - 1/54*\sqrt{1/3}*((3125*a^{27} + 42925*a^{25}*b^2 - 229635*a^{23}*b^4 + 385770*a^{21}*b^6 - 204510*a^{19}*b^8 - 125307*a^{17}*b^{10} + 201885*a^{15}*b^{12} - 87360*a^{13}*b^{14} + 14175*a^{11}*b^{16} - 1100*a^9*b^{18} + 32*a^7*b^{20})*((-I*\sqrt{3} + 1)*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}
\end{aligned}$$

$$\begin{aligned}
& 0*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 \\
& - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)* \\
& (10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{1/3} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2))*d^4*\sin(d*x + c) - 54*(109375*a^{21}*b^2 - 584750*a^{19}*b^4 + 1287601*a^{17}*b^6 - 1495040*a^{15}*b^8 + 971185*a^{13}*b^{10} - 345110*a^{11}*b^{12} + 61855*a^9*b^{14} - 5276*a^7*b^{16} + 160*a^5*b^{18})*d^2*\sin(d*x + c))*\sqrt{((5467500*a^{12}*b^4 + 146179080*a^{10}*b^6 + 288552780*a^8*b^8 + 116085960*a^6*b^{10} - 45717048*a^4*b^{12} + 6298560*a^2*b^{14} - 306180*b^{16} - (a^{24} - 10*a^{22}*b^2 + 45*a^{20}*b^4 - 120*a^{18}*b^6 + 210*a^{16}*b^8 - 252*a^{14}*b^{10} + 210*a^{12}*b^{12} - 120*a^{10}*b^{14} + 45*a^8*b^{16} - 10*a^6*b^{18} + a^4*b^{20})*((-I*\sqrt{3}) + 1))*((35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^2/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^2 - 45*(10*a^2*b^4 - b^6)/(a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)))/(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}*a^{10}*d^6)^{1/3} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)^3/(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)^3 - 1/1062882*(15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8)/(a^{20}*d^6 - 5*a^{18}*b^2*d^6 + 10*a^{16}*b^4*d^6 - 10*a^{14}*b^6*d^6 + 5*a^{12}*b^8*d^6 - a^{10}*b^{10}*d^6) + 5/1458*(35*a^6*b^2 + 195*a^4*b^4 + 18*a^2*b^6 - 5*b^8)*(10*a^2*b^4 - b^6)/((a^{14}*d^4 - 5*a^{12}*b^2*d^4 + 10*a^{10}*b^4*d^4 - 10*a^8*b^6*d^4 + 5*a^6*b^8*d^4 - a^4*b^{10}*d^4)*(a^{12}*d^2 - 5*a^{10}*b^2*d^2 + 10*a^8*b^4*d^2 - 10*a^6*b^6*d^2 + 5*a^4*b^8*d^2 - a^2*b^{10}*d^2)) - 1/1062882*(15625*a^{14} + 959375*a^{12}*b^2 + 24861*a^{10}*b^4 - 1094705*a^8*b^6 + 307475*a^6*b^8 - 37740*a^4*b^{10} + 2320*a^2*b^{12} - 64*b^{14}
\end{aligned}$$

$$\begin{aligned}
& 4)*b^4/((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 54*(35*a^6*b^2 + 195*a^4*b^4 + 18 \\
& *a^2*b^6 - 5*b^8)/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6* \\
& d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^2d^4 + 108*(35*a^{18}b^2 + 20*a^{16}b^4 \\
& - 607*a^{14}b^6 + 1505*a^{12}b^8 - 1570*a^{10}b^{10} + 710*a^8b^{12} - 55*a^6b^{14} \\
& - 43*a^4b^{16} + 5*a^2b^{18})*((-I*\sqrt{3}) + 1)*((35*a^6b^2 + 195*a^4b^4 \\
& + 18*a^2b^6 - 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a \\
& ^6b^6*d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10*a^2b^4 - b^6)/(a^{14}* \\
& d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a \\
& ^4b^{10}d^4))/(-1/19683*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8)^3/(\\
& a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 \\
& - a^2b^{10}d^2)^3 - 1/1062882*(15625*a^4b^4 - 2000*a^2b^6 + 64*b^8)/(a^2 \\
& 0*d^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 + 5*a^{12}b^8d^6 \\
& - a^{10}b^{10}d^6) + 5/1458*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8)* \\
& (10*a^2b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^4d^4 - 10*a^8b \\
& ^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8* \\
& b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(1562 \\
& 5*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 + 307475*a^6b^ \\
& 8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6) \\
&)^{(1/3)} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35*a^6b^2 + 195*a^4b^4 + 18*a^2* \\
& b^6 - 5*b^8)^3/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 \\
& + 5*a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625*a^4b^4 - 2000*a^2b^ \\
& 6 + 64*b^8)/(a^{20}d^6 - 5*a^{18}b^2d^6 + 10*a^{16}b^4d^6 - 10*a^{14}b^6d^6 \\
& + 5*a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35*a^6b^2 + 195*a^4b^4 + 18*a \\
& ^2b^6 - 5*b^8)*(10*a^2b^4 - b^6)/((a^{14}d^4 - 5*a^{12}b^2d^4 + 10*a^{10}b^ \\
& 4d^4 - 10*a^8b^6d^4 + 5*a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5*a^{10}b^ \\
& ^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8d^2 - a^2b^{10}d^2)) - \\
& 1/1062882*(15625*a^{14} + 959375*a^{12}b^2 + 24861*a^{10}b^4 - 1094705*a^8b^6 \\
& + 307475*a^6b^8 - 37740*a^4b^{10} + 2320*a^2b^{12} - 64*b^{14})*b^4/((a^2 - b \\
& ^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35*a^6b^2 + 195*a^4b^4 + 18*a^2b^6 - 5*b^8 \\
&)/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2 + 5*a^4b^8* \\
& d^2 - a^2b^{10}d^2)*d^2)/((a^{24} - 10*a^{22}b^2 + 45*a^{20}b^4 - 120*a^{18}b^6 \\
& + 210*a^{16}b^8 - 252*a^{14}b^{10} + 210*a^{12}b^{12} - 120*a^{10}b^{14} + 45*a^8b^{16} \\
& - 10*a^6b^{18} + a^4b^{20})*d^4)) - 18*(1015625*a^{15}b^4 - 32411250*a^{13}b^ \\
& ^6 - 28669215*a^{11}b^8 + 10745945*a^9b^{10} - 1431207*a^7b^{12} + 88140*a^5b^ \\
& ^{14} - 2080*a^3b^{16})*\sin(dx + c)) - 36*(7*a^3b + 11*a*b^3)*\cos(dx + c)^2 \\
& - 54*((a^6 - 2*a^4b^2 + a^2b^4)*d*\cos(dx + c) - ((a^5b - 2*a^3b^3 + a \\
& *b^5)*d*\cos(dx + c))^3 - (a^5b - 2*a^3b^3 + a*b^5)*d*\cos(dx + c))*\sin(dx \\
& + c))*\sqrt{-1/1458*(-I*\sqrt{3}) + 1)*((35*a^6b^2 + 195*a^4b^4 + 18*a^2b^ \\
& ^6 - 5*b^8)^2/(a^{12}d^2 - 5*a^{10}b^2d^2 + 10*a^8b^4d^2 - 10*a^6b^6d^2
\end{aligned}$$

$$\begin{aligned}
& + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) \\
&)/(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} - 1/2*(I*\sqrt{3} + 1)*(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} - 1/27(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*\log(3906250a^{16}b^3 + 239593750a^{14}b^5 - 9134750a^{12}b^7 - 274074026a^{10}b^9 + 94384030a^8b^{11} - 14354600a^6b^{13} + 1183840a^4b^{15} - 53120a^2b^{17} + 1024b^{19} + 1/162(3125a^{27} + 42925a^{25}b^2 - 229635a^{23}b^4 + 385770a^{21}b^6 - 204510a^{19}b^8 - 125307a^{17}b^{10} + 201885a^{15}b^{12} - 87360a^{13}b^{14} + 14175a^{11}b^{16} - 1100a^9b^{18} + 32a^7b^{20}))*((-I*\sqrt{3} + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)
\end{aligned}$$

$$\begin{aligned}
& b^{10}d^4)(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1) \\
& *(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^{2*d^4}*\sin(dx + c) - 1/3*(218750a^{21}b^2 + 8560625a^{19}b^4 + 36478724a^{17}b^6 + 22289615a^{15}b^8 - 5385700a^{13}b^{10} - 80695a^{11}b^{12} + 107510a^9b^{14} - 10552a^7b^{16} + 320a^5b^{18})*((-I*\sqrt{3} + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))
\end{aligned}$$

$$\begin{aligned}
& b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2) \\
& - 1/1062882*(15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 \\
& + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - \\
& b^2)^{10} a^{10} d^6)^{(1/3)} + 54*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) \\
& / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 \\
& * d^2 - a^2 b^{10} d^2) * d^2 * \sin(dx + c) - 18*(1015625 a^{15} b^4 - 32411250 a^{13} b^6 \\
& - 28669215 a^{11} b^8 + 10745945 a^9 b^{10} - 1431207 a^7 b^{12} + 88140 a^5 b^{14} \\
& - 2080 a^3 b^{16}) * \sin(dx + c) - 1/18*((1625 a^{29} + 36046 a^{27} b^2 - \\
& 163881 a^{25} b^4 + 213510 a^{23} b^6 + 15855 a^{21} b^8 - 274068 a^{19} b^{10} + 24 \\
& 8289 a^{17} b^{12} - 87954 a^{15} b^{14} + 11160 a^{13} b^{16} - 590 a^{11} b^{18} + 8 a^9 b^{20}) * \\
& ((-I \sqrt{3}) + 1) * ((35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^2 / \\
& (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 \\
& - a^2 b^{10} d^2)^2 - 45*(10 a^2 b^4 - b^6) / (a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 \\
& a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)) / (-1/19683*(\\
& 35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} d^2 - 5 a^{10} b^2 d^2 \\
& + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^3 - 1/10 \\
& 62882*(15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 - 5 a^{18} b^2 d^6 + \\
& 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/145 \\
& 8*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 b^4 - b^6) / ((a^{14} \\
& d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - \\
& a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 \\
& + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882*(15625 a^{14} + 959375 a^{12} b^2 \\
& + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 \\
& a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - b^2)^{10} a^{10} d^6)^{(1/3)} + 729*(I \sqrt{3}) \\
& + 1) * (-1/19683*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} d^2 \\
& - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} \\
& d^2)^3 - 1/1062882*(15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 - 5 \\
& a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} \\
& d^6) + 5/1458*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 b^4 \\
& - b^6) / ((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + \\
& 5 a^6 b^8 d^4 - a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - \\
& 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882*(15625 a^{14} + \\
& 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 \\
& a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - b^2)^{10} a^{10} d^6)^{(1/3)} + \\
& 54*(35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) / (a^{12} d^2 - 5 a^{10} b^2 d^2 \\
& + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2) * d^2 \\
& 5 * \cos(dx + c) - 18*(371875 a^{23} b^2 + 17385825 a^{21} b^4 + 89633928 a^{19} b^6 \\
& + 76413303 a^{17} b^8 - 9497193 a^{15} b^{10} - 2729625 a^{13} b^{12} + 666195 a^{11} \\
& b^{14} - 60144 a^9 b^{16} + 2784 a^7 b^{18} - 64 a^5 b^{20}) * ((-I \sqrt{3}) + 1) * ((3
\end{aligned}$$

$$\begin{aligned}
& 5a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 \\
& + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(1 \\
& 0a^2b^4 - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6* \\
& d^4 + 5a^6b^8d^4 - a^4b^{10}d^4) / (-1/19683*(35a^6b^2 + 195a^4b^4 + \\
& 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6* \\
& b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000 \\
& *a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^ \\
& ^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 \\
& + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10* \\
& a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5 \\
& *a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2) \\
& - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705* \\
& a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4 / ((\\
& a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 729*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 \\
& + 195a^4b^4 + 18a^2b^6 - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^ \\
& ^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(1562 \\
& 5a^4b^4 - 2000a^2b^6 + 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4 \\
& *d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^ \\
& ^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^ \\
& ^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^ \\
& ^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8 \\
& *d^2 - a^2b^{10}d^2) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^1 \\
& 0b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - \\
& 64b^{14})*b^4 / ((a^2 - b^2)^{10}a^{10}d^6)^{(1/3)} + 54*(35a^6b^2 + 195a^4b^ \\
& ^4 + 18a^2b^6 - 5b^8) / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^ \\
& ^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)*d^3*\cos(dx + c) - 324*(390625* \\
& a^{19}b^2 + 25412500a^{17}b^4 - 272271875a^{15}b^6 - 269725757a^{13}b^8 + 10 \\
& 4826850a^{11}b^{10} - 15511382a^9b^{12} + 1252726a^7b^{14} - 59336a^5b^{16} + \\
& 1408a^3b^{18})*d*\cos(dx + c))*\sqrt{-1/1458*(-I*\sqrt{3} + 1)*((35a^6b^2 \\
& + 195a^4b^4 + 18a^2b^6 - 5b^8)^2 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^ \\
& ^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^2 - 45*(10a^2b^4 \\
& - b^6) / (a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^ \\
& ^6b^8d^4 - a^4b^{10}d^4) / (-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)^3 / (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + \\
& 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + \\
& 64b^8) / (a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5 \\
& *a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2* \\
& b^6 - 5b^8)*(10a^2b^4 - b^6) / ((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^ \\
& ^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2*
\end{aligned}$$

$$\begin{aligned}
& d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/ \\
& 1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + \\
& 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2) \\
& ^{10}a^{10}d^6))^{(1/3)} - 1/2*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 \\
& + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 1 \\
& 0a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 \\
& - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a \\
& ^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4 \\
& ^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 \\
& + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 \\
& ^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2 \\
& *b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 10 \\
& 94705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})* \\
& b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} - 1/27*(35a^6b^2 + 195a^4b^4 + 18a^2 \\
& a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& ^2 + 5a^4b^8d^2 - a^2b^{10}d^2))) + 54*((a^6 - 2a^4b^2 + a^2b^4)*d*\cos \\
& (d*x + c) - ((a^5b - 2a^3b^3 + a*b^5)*d*\cos(d*x + c))^3 - (a^5b - 2a^3 \\
& *b^3 + a*b^5)*d*\cos(d*x + c))*\sin(d*x + c))*\sqrt{-1/1458*(-I*\sqrt{3} + 1)* \\
& (35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 \\
& ^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45* \\
& (10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6 \\
& d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 \\
& + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6 \\
& b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 20 \\
& 00a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14} \\
& *b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 \\
& ^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 1 \\
& 0a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - \\
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& 0d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 109470 \\
& 5a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})*b^4/ \\
& ((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} - 1/2*(I*\sqrt{3} + 1)*(-1/19683*(35a^6b^2 \\
& + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8 \\
& *b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15 \\
& 625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4 \\
& ^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6 \\
& *b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a \\
& ^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10} \\
& d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8
\end{aligned}$$

$$\begin{aligned}
&^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} - 1/27*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*\log(-3906250a^{16}b^3 - 239593750a^{14}b^5 + 9134750a^{12}b^7 + 274074026a^{10}b^9 - 94384030a^8b^{11} + 14354600a^6b^{13} - 1183840a^4b^{15} + 53120a^2b^{17} - 1024b^{19} - 1/162*(3125a^{27} + 42925a^{25}b^2 - 229635a^{23}b^4 + 385770a^{21}b^6 - 204510a^{19}b^8 - 125307a^{17}b^{10} + 201885a^{15}b^{12} - 87360a^{13}b^{14} + 14175a^{11}b^{16} - 1100a^9b^{18} + 32a^7b^{20})*((-I*\sqrt{3}) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*\sqrt{3}) + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2d^4*\sin(dx + c) + 1/3*(218750a^{21}b^2 + 8560625a^{19}b^4 + 36478724a^{17}b^6 + 22289615a^{15}b^8 - 5385700a^{13}b^{10} - 80695a^{11}b^{12} + 107510a^9b^{14} - 10552a^7b^{16} + 320a^5b^{18})*((-I*\sqrt{3}) + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 -
\end{aligned}$$

$$\begin{aligned}
& 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& *d^2)^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 \\
& - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + \\
& 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4 \\
& 4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625 \\
& *a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4* \\
& d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^ \\
& 2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12} \\
& b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4 \\
&)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8* \\
& d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10} \\
& *b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - \\
& 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(I*sqrt(3) + 1)*(-1/196 \\
& 83*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2 \\
& *d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^3 - \\
& 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 \\
& + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5 \\
& /1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((\\
& a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 \\
& - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6* \\
& d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 \\
& + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + \\
& 2320a^2b^{12} - 64b^{14})*b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6* \\
& b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8 \\
& *b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))*d^2*sin(dx + c) \\
& + 18*(1015625a^{15}b^4 - 32411250a^{13}b^6 - 28669215a^{11}b^8 + 10745945* \\
& a^9b^{10} - 1431207a^7b^{12} + 88140a^5b^{14} - 2080a^3b^{16})*sin(dx + c) \\
& - 1/18*((1625a^{29} + 36046a^{27}b^2 - 163881a^{25}b^4 + 213510a^{23}b^6 + 1 \\
& 5855a^{21}b^8 - 274068a^{19}b^{10} + 248289a^{17}b^{12} - 87954a^{15}b^{14} + 111 \\
& 60a^{13}b^{16} - 590a^{11}b^{18} + 8a^9b^{20})*((-I*sqrt(3) + 1)*((35a^6b^2 + \\
& 195a^4b^4 + 18a^2b^6 - 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4 \\
& 4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - \\
& b^6)/(a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6 \\
& *b^8d^4 - a^4b^{10}d^4))/(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5 \\
& *a^4b^8d^2 - a^2b^{10}d^2))^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + \\
& 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5* \\
& a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 \\
& - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4
\end{aligned}$$

$$\begin{aligned}
& 4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)(a^{12}d^2 - 5a^{10}b^2d^2 \\
& ^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1 \\
& 062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 3 \\
& 07475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10} \\
& a^{10}d^6))^{(1/3)} + 729*(I\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 \\
& ^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10 \\
& a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - \\
& 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14} \\
& b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4 \\
& 4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 \\
& + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 \\
& - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10} \\
& d^2)) - 1/1062882*(15625a^{14} + 959375a^{12}b^2 + 24861a^{10}b^4 - 109 \\
& 4705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} + 2320a^2b^{12} - 64b^{14})b \\
& ^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 54*(35a^6b^2 + 195a^4b^4 + 18a^2 \\
& b^6 - 5b^8)/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 \\
& + 5a^4b^8d^2 - a^2b^{10}d^2))^2d^5\cos(dx + c) - 18*(371875a^{23}b^2 + \\
& 17385825a^{21}b^4 + 89633928a^{19}b^6 + 76413303a^{17}b^8 - 9497193a^{15}b \\
& ^{10} - 2729625a^{13}b^{12} + 666195a^{11}b^{14} - 60144a^9b^{16} + 2784a^7b^{18} \\
& - 64a^5b^{20})*((-I\sqrt{3} + 1)*((35a^6b^2 + 195a^4b^4 + 18a^2b^6 - \\
& 5b^8)^2/(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a \\
& 4b^8d^2 - a^2b^{10}d^2))^2 - 45*(10a^2b^4 - b^6)/(a^{14}d^4 - 5a^{12}b^2 \\
& 2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8d^4 - a^4b^{10}d^4))/(- \\
& 1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/(a^{12}d^2 - 5a^{10} \\
& b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2 \\
&)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20}d^6 - 5a^{18} \\
& b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 - a^{10}b^{10}d^6 \\
& 6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)*(10a^2b^4 - b \\
& ^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^6d^4 + 5a^6b^8 \\
& b^8d^4 - a^4b^{10}d^4)*(a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6 \\
& b^6d^2 + 5a^4b^8d^2 - a^2b^{10}d^2)) - 1/1062882*(15625a^{14} + 959375 \\
& a^{12}b^2 + 24861a^{10}b^4 - 1094705a^8b^6 + 307475a^6b^8 - 37740a^4b^{10} \\
& ^{10} + 2320a^2b^{12} - 64b^{14})b^4/((a^2 - b^2)^{10}a^{10}d^6))^{(1/3)} + 729*(\\
& I\sqrt{3} + 1)*(-1/19683*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8)^3/ \\
& (a^{12}d^2 - 5a^{10}b^2d^2 + 10a^8b^4d^2 - 10a^6b^6d^2 + 5a^4b^8d^2 \\
& - a^2b^{10}d^2)^3 - 1/1062882*(15625a^4b^4 - 2000a^2b^6 + 64b^8)/(a^{20} \\
& d^6 - 5a^{18}b^2d^6 + 10a^{16}b^4d^6 - 10a^{14}b^6d^6 + 5a^{12}b^8d^6 \\
& - a^{10}b^{10}d^6) + 5/1458*(35a^6b^2 + 195a^4b^4 + 18a^2b^6 - 5b^8) \\
& *(10a^2b^4 - b^6)/((a^{14}d^4 - 5a^{12}b^2d^4 + 10a^{10}b^4d^4 - 10a^8b^
\end{aligned}$$

$$\begin{aligned}
& b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4) (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2) - 1/1062882 (15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - b^2)^{10} a^{10} d^6)^{1/3} + 54 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2) * d^3 \cos(dx + c) - 324 (390625 a^{19} b^2 + 25412500 a^{17} b^4 - 272271875 a^{15} b^6 - 269725757 a^{13} b^8 + 104826850 a^{11} b^{10} - 15511382 a^9 b^{12} + 1252726 a^7 b^{14} - 59336 a^5 b^{16} + 1408 a^3 b^{18}) * d \cos(dx + c) * \sqrt{-1/1458 (-I \sqrt{3} + 1) ((35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^2 / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^2 - 45 (10 a^2 b^4 - b^6) / (a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4)) / (-1/19683 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^3 - 1/1062882 (15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/1458 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 b^4 - b^6) / ((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882 (15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - b^2)^{10} a^{10} d^6)^{1/3} - 1/2 (I \sqrt{3} + 1) * (-1/19683 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8)^3 / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)^3 - 1/1062882 (15625 a^4 b^4 - 2000 a^2 b^6 + 64 b^8) / (a^{20} d^6 - 5 a^{18} b^2 d^6 + 10 a^{16} b^4 d^6 - 10 a^{14} b^6 d^6 + 5 a^{12} b^8 d^6 - a^{10} b^{10} d^6) + 5/1458 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) * (10 a^2 b^4 - b^6) / ((a^{14} d^4 - 5 a^{12} b^2 d^4 + 10 a^{10} b^4 d^4 - 10 a^8 b^6 d^4 + 5 a^6 b^8 d^4 - a^4 b^{10} d^4) * (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) - 1/1062882 (15625 a^{14} + 959375 a^{12} b^2 + 24861 a^{10} b^4 - 1094705 a^8 b^6 + 307475 a^6 b^8 - 37740 a^4 b^{10} + 2320 a^2 b^{12} - 64 b^{14}) b^4 / ((a^2 - b^2)^{10} a^{10} d^6)^{1/3} - 1/27 (35 a^6 b^2 + 195 a^4 b^4 + 18 a^2 b^6 - 5 b^8) / (a^{12} d^2 - 5 a^{10} b^2 d^2 + 10 a^8 b^4 d^2 - 10 a^6 b^6 d^2 + 5 a^4 b^8 d^2 - a^2 b^{10} d^2)) + 36 (3 a^4 - 3 a^2 b^2 + (8 a^2 b^2 + b^4) * \cos(dx + c)^2 * \sin(dx + c)) / ((a^6 - 2 a^4 b^2 + a^2 b^4) * d * \cos(dx + c) - ((a^5 b - 2 a^3 b^3 + a b^5) * d * \cos(dx + c)^3 - (a^5 b - 2 a^3 b^3 + a b^5) * d * \cos(dx + c)) * \sin(dx + c))
\end{aligned}$$

Integral number [336]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[C] time = 127.922 (sec), size = 133123 ,normalized size = 5787.96

Too large to display

[In] integrate(sec(d*x+c)^4/(a+b*sin(d*x+c)^3)^2,x, algorithm="fricas")

[Out]

```
1/108*(36*(2*a^5*b - 30*a^3*b^3 - 17*a*b^5)*cos(d*x + c)^6 - 36*a^5*b + 72*
a^3*b^3 - 36*a*b^5 - 108*(a^5*b - 21*a^3*b^3 - 10*a*b^5)*cos(d*x + c)^4 + s
qrt(2/3)*sqrt(1/6)*((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d*cos(d*x + c)^
3 - ((a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^5 - (a^7*b - 3*
a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^3)*sin(d*x + c))*sqrt(-(573480*
a^8*b^4 + 4293324*a^6*b^6 + 3847662*a^4*b^8 + 159894*a^2*b^10 - 17010*b^12
- (a^16 - 7*a^14*b^2 + 21*a^12*b^4 - 35*a^10*b^6 + 35*a^8*b^8 - 21*a^6*b^10
+ 7*a^4*b^12 - a^2*b^14))*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 +
7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^2/(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a
^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b
^12*d^2 - a^2*b^14*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/(a^1
8*d^4 - 7*a^16*b^2*d^4 + 21*a^14*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d
^4 - 21*a^8*b^10*d^4 + 7*a^6*b^12*d^4 - a^4*b^14*d^4))/(-1/531441*(1180*a^8*
b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^3/(a^16*d^2 - 7
*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6
*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^2)^3 - 1/1062882*(117649*a^4*b^8 -
5488*a^2*b^10 + 64*b^12)/(a^24*d^6 - 7*a^22*b^2*d^6 + 21*a^20*b^4*d^6 - 35*
a^18*b^6*d^6 + 35*a^16*b^8*d^6 - 21*a^14*b^10*d^6 + 7*a^12*b^12*d^6 - a^10*
b^14*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*
b^10 - 35*b^12)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/((a^18*d^4 - 7*a^1
6*b^2*d^4 + 21*a^14*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8*b
^10*d^4 + 7*a^6*b^12*d^4 - a^4*b^14*d^4)*(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^1
2*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^1
2*d^2 - a^2*b^14*d^2)) + 1/1062882*(117649*a^18 - 8700881*a^16*b^2 - 3882578
21*a^14*b^4 - 913533166*a^12*b^6 - 89240711*a^10*b^8 + 64339744*a^8*b^10 -
5882401*a^6*b^12 + 259084*a^4*b^14 - 5936*a^2*b^16 + 64*b^18)*b^8/((a^2 - b
^2)^14*a^10*d^6))^(1/3) + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8
```

$$\begin{aligned}
& 834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 \\
& + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \\
& * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 \\
& + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) \\
& + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} \\
& + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10}d^6)^{(1/3)} + 162 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \\
& / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) * d^2 + 3 * \sqrt{1/3} * (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 \\
& - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}) * d^2 * \sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 1309487743232a^{10}b^{14} \\
& + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} \\
& - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})) * ((-I * \sqrt{3}) + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))
\end{aligned}$$

$$\begin{aligned}
&^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^2)) + 1/1062882*(117649* \\
&a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 8924071 \\
&1*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936* \\
&a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) \\
&+ 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
&- 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
&+ 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/ \\
&1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d \\
&^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 \\
&+ 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 \\
&+ 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 11 \\
&9*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 3 \\
&5*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 \\
&- 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21 \\
&*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - \\
&8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}* \\
&b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{1 \\
&6 + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 883 \\
&4*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d \\
&^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
&7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2*d^4 + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 \\
&- 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 8 \\
&7591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4 \\
&*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917 \\
&*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b \\
&^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^ \\
&2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 \\
&- 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 2 \\
&1*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + \\
&8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14} \\
&*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10} \\
&*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488* \\
&a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}* \\
&b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14} \\
&d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
&- 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2 \\
&*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^ \\
&4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4 \\
&*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2
\end{aligned}$$

$$\begin{aligned}
& - a^2 b^{14} d^2)) + 1/1062882*(117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{1/3} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882*(117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})*(1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)*(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882*(117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{1/3} + 162*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2) * d^2) / ((a^{32} - 14 a^{30} b^2 + 91 a^{28} b^4 - 364 a^{26} b^6 + 1001 a^{24} b^8 - 2002 a^{22} b^{10} + 3003 a^{20} b^{12} - 3432 a^{18} b^{14} + 3003 a^{16} b^{16} - 2002 a^{14} b^{18} + 1001 a^{12} b^{20} - 364 a^{10} b^{22} + 91 a^8 b^{24} - 14 a^6 b^{26} + a^4 b^{28}) * d^4)) / ((a^{16} - 7 a^{14} b^2 + 21 a^{12} b^4 - 35 a^{10} b^6 + 35 a^8 b^8 - 21 a^6 b^{10} + 7 a^4 b^{12} - a^2 b^{14}) * d^2)) * log(161414428 a^{20} b^7 - 11941373500 a^{18} b^9 - 532411302220 a^{16} b^{11} - 1240943253480 a^{14} b^{13} - 93205194180 a^{12} b^{15} + 91129831520 a^{10} b^{17} - 10129525980 a^8 b^{19} + 543700080 a^6 b^{21} - 16434880 a^4 b^{23} + 277760 a^2 b^{25} - 2048 b^{27} + 1/13122*(108045 a^{33} b^2 + 1246000 a^{31} b^4 - 8252545 a^{29} b^6 + 14362502 a^{27} b^8 + 3119725 a^{25} b^{10} - 42348705 a^{23} b^{12} + 60187305 a^{21} b^{14} - 37763145 a^{19} b^{16} + 8526966 a^{17} b^{18} + 1772925 a^{15} b^{20} - 1034740 a^{13} b^{22} + 78295 a^{11} b^{24} - 2660 a^9 b^{26} + 32 a^7 b^{28}) * ((-I*\sqrt{3} + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2 + 15*(1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/531441*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))
\end{aligned}$$

$$\begin{aligned}
& ^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 \\
& - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2*d^4*sin(dx + c) - 1/81*(823543a^{27}b^4 + 356380430a^{25}b^6 + 1011342305a^{23}b^8 + 67531592520a^{21}b^{10} + 143044567575a^{19}b^{12} + 98746645158a^{17}b^{14} + 15418943610a^{15}b^{16} - 1382094090a^{13}b^{18} - 23892960a^{11}b^{20} + 5179370a^9b^{22} - 191576a^7b^{24} + 2240a^5b^{26})*((-I*sqrt(3) + 1))*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}
\end{aligned}$$

$$\begin{aligned}
& b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2) \\
& ^3 - 1/1062882*(117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12})/(a^{24} d^6 - 7 a^{22} b^2 d^6 \\
& + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098*(1180 a^8 b^4 + 8834 a^6 b^6 \\
& + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})*(1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10})/((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 \\
& - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)*(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882*(117649 a^{18} \\
& - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18})*b^8/((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 6561*(I*\sqrt{3} \\
& + 1)*(-1/531441*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3/(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^3 - 1/ \\
& 1062882*(117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12})/(a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098*(1180 a^8 b^4 + 8834 a^6 b^6 \\
& + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})*(1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10})/((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)*(a^{16} d^2 \\
& - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882*(117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} \\
& + 64 b^{18})*b^8/((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 162*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})/(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))*d^2*\sin(dx + c) - 1/78732*\sqrt{2/3}*\sqrt{1/6}*((2401 a^{37} + 48524 a^{35} b^2 - 1682975 a^{33} b^4 + 6603275 a^{31} b^6 - 4665683 a^{29} b^8 - 22089037 a^{27} b^{10} + 59373627 a^{25} b^{12} - 63314565 a^{23} b^{14} + 29891400 a^{21} b^{16} - 748909 a^{19} b^{18} - 4864664 a^{17} b^{20} + 1529774 a^{15} b^{22} - 85010 a^{13} b^{24} + 1850 a^{11} b^{26} - 8 a^9 b^{28})*((-I*\sqrt{3} + 1) \\
& *((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2/(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^2 + 15*(1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10})/(a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4))/(-1/531441*(1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3/(a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))
\end{aligned}$$

$$\begin{aligned}
& *b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 \\
& - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22} \\
& *b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10} \\
& *d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
& + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711 \\
& *a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + \\
& 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1 \\
& 062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 \\
& + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 \\
& + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119 \\
& *b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35 \\
& *a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 \\
& - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21* \\
& a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8 \\
& 700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 \\
& + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} \\
& + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834 \\
& *a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
& 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2*d^5*cos(d*x + c) - 162*(9947343*a^{29}*b^4 \\
& + 292790008*a^{27}*b^6 - 2753097753*a^{25}*b^8 - 44962633450*a^{23}*b^{10} - 129793 \\
& 230435*a^{21}*b^{12} - 112855972122*a^{19}*b^{14} - 25039968999*a^{17}*b^{16} + 1092578 \\
& 394*a^{15}*b^{18} + 138817665*a^{13}*b^{20} - 11962860*a^{11}*b^{22} + 398384*a^9*b^{24} \\
& - 6864*a^7*b^{26} + 64*a^5*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6* \\
& b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + \\
& 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) \\
& /((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180
\end{aligned}$$

$$\begin{aligned}
& *a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) *d^3*cos(d*x + c) - 26244*(31294634*a^{23}*b^6 + 3250929990*a^{21}*b^8 + 73171807478*a^{19}*b^{10} + 245222572301*a^{17}*b^{12} + 233351795684*a^{15}*b^{14} + 43340511440*a^{13}*b^{16} - 5121621985*a^{11}*b^{18} + 198326192*a^9*b^{20} - 3185326*a^7*b^{22} + 19656*a^5*b^{24} - 64*a^3*b^{26})*d*cos(d*x + c) + 3*sqrt(1/3)*((2401*a^{37} + 48524*a^{35}*b^2 - 1682975*a^{33}*b^4 + 6603275*a^{31}*b^6 - 4665683*a^{29}*b^8 - 22089037*a^{27}*b^{10} + 59373627*a^{25}*b^{12} - 63314565*a^{23}*b^{14} + 29891400*a^{21}*b^{16} - 748909*a^{19}*b^{18} - 4864664*a^{17}*b^{20} + 1529774*a^{15}*b^{22} - 85010*a^{13}*b^{24} + 1850*a^{11}*b^{26} - 8*a^9*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7
\end{aligned}$$

$$\begin{aligned}
& *a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6 \\
& *b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2* \\
& b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6* \\
& d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(- \\
& 1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b \\
& ^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35* \\
& a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/106288 \\
& 2*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 2 \\
& 1a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a \\
& ^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 791 \\
& 7a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10} \\
&)/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10} \\
& *b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a \\
& ^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b \\
& ^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 870088 \\
& 1a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + \\
& 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64 \\
& *b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/5314 \\
& 41*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/ \\
& (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8 \\
& *d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(1176 \\
& 49a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20} \\
& b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{1 \\
& 2}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b \\
& ^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{1 \\
& 8}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^ \\
& 4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2 \\
& *d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16} \\
& b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 6433974 \\
& 4a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64*b^{18})* \\
& b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7 \\
& 917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12} \\
& b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d \\
& ^2 - a^2b^{14}d^2))*d^5*cos(d*x + c) + 162*(1447803a^{29}b^4 - 2113034a^{27} \\
& *b^6 - 24206406a^{25}b^8 + 106832600a^{23}b^{10} - 196587030a^{21}b^{12} + 1929 \\
& 86604a^{19}b^{14} - 98610792a^{17}b^{16} + 16488192a^{15}b^{18} + 6358275a^{13}b^{ \\
& 20} - 2792370a^{11}b^{22} + 202118a^9b^{24} - 6024a^7b^{26} + 64a^5b^{28})*d^3 \\
& *cos(d*x + c))*sqrt((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 171061173
\end{aligned}$$

$$\begin{aligned}
& 8640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 51705 \\
& 25774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 44948098 \\
& 80a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 \\
& + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 30 \\
& 03a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} \\
& - 14a^6b^{26} + a^4b^{28}) * ((-I\sqrt{3}) + 1) * ((1180a^8b^4 + 8834a^6b^6 \\
& + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21 \\
& a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12} \\
& b^{12}d^2 - a^2b^{14}d^2)^2 + 15(1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a \\
& ^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 \\
& d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) / (-1/531441(1180a^8 \\
& b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - \\
& 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6 \\
& b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882(117649a^4b^8 \\
& - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 3 \\
& 5a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10} \\
& b^{14}d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2 \\
& b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16} \\
& b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10} \\
& b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12} \\
& b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - \\
& a^2b^{14}d^2)) + 1/1062882(117649a^{18} - 8700881a^{16}b^2 - 38825 \\
& 7821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} \\
& - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - \\
& b^2)^{14}a^{10}d^6))^{(1/3)} + 6561(I\sqrt{3}) + 1) * (-1/531441(1180a^8b^4 + \\
& 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14} \\
& b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10} \\
& *d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882(117649a^4b^8 - 5488 \\
& a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18} \\
& b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14} \\
& d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} \\
& - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2 \\
& *d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 \\
& + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4 \\
& *d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 \\
& - a^2b^{14}d^2)) + 1/1062882(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14} \\
& b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 58824 \\
& 01a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} \\
& a^{10}d^6))^{(1/3)} + 162(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329
\end{aligned}$$

$$\begin{aligned}
& a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2) \\
&)^2 d^4 + 324 (1180 a^{24} b^4 + 574 a^{22} b^6 - 29141 a^{20} b^8 + 89124 a^{18} b^{10} - 103971 a^{16} b^{12} + 14469 a^{14} b^{14} + 87591 a^{12} b^{16} - 92859 a^{10} b^{18} \\
& + 38451 a^8 b^{20} - 4879 a^6 b^{22} - 574 a^4 b^{24} + 35 a^2 b^{26}) * ((-I \sqrt{3} + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2 + 15 * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 6561 * (I \sqrt{3} + 1) * (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 162 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14}
\end{aligned}$$

$$\begin{aligned}
& *b^2*d^2 + 21*a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10 \\
& *d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^2)) *d^2) / ((a^32 - 14*a^30*b^2 + 91*a^28* \\
& b^4 - 364*a^26*b^6 + 1001*a^24*b^8 - 2002*a^22*b^10 + 3003*a^20*b^12 - 3432 \\
& *a^18*b^14 + 3003*a^16*b^16 - 2002*a^14*b^18 + 1001*a^12*b^20 - 364*a^10*b^ \\
& 22 + 91*a^8*b^24 - 14*a^6*b^26 + a^4*b^28)*d^4)) *sqrt(-(573480*a^8*b^4 + 4 \\
& 293324*a^6*b^6 + 3847662*a^4*b^8 + 159894*a^2*b^10 - 17010*b^12 - (a^16 - 7 \\
& *a^14*b^2 + 21*a^12*b^4 - 35*a^10*b^6 + 35*a^8*b^8 - 21*a^6*b^10 + 7*a^4*b^ \\
& 12 - a^2*b^14))*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b \\
& ^8 + 329*a^2*b^10 - 35*b^12)^2/(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 \\
& - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^ \\
& 2*b^14*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/(a^18*d^4 - 7*a \\
& ^16*b^2*d^4 + 21*a^14*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8* \\
& b^10*d^4 + 7*a^6*b^12*d^4 - a^4*b^14*d^4))/(-1/531441*(1180*a^8*b^4 + 8834* \\
& a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^3/(a^16*d^2 - 7*a^14*b^2*d \\
& ^2 + 21*a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + \\
& 7*a^4*b^12*d^2 - a^2*b^14*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^ \\
& 10 + 64*b^12)/(a^24*d^6 - 7*a^22*b^2*d^6 + 21*a^20*b^4*d^6 - 35*a^18*b^6*d^ \\
& 6 + 35*a^16*b^8*d^6 - 21*a^14*b^10*d^6 + 7*a^12*b^12*d^6 - a^10*b^14*d^6) - \\
& 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b \\
& ^12)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/((a^18*d^4 - 7*a^16*b^2*d^4 + \\
& 21*a^14*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8*b^10*d^4 + 7* \\
& a^6*b^12*d^4 - a^4*b^14*d^4)*(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - \\
& 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2* \\
& b^14*d^2)) + 1/1062882*(117649*a^18 - 8700881*a^16*b^2 - 388257821*a^14*b^4 \\
& - 913533166*a^12*b^6 - 89240711*a^10*b^8 + 64339744*a^8*b^10 - 5882401*a^6 \\
& *b^12 + 259084*a^4*b^14 - 5936*a^2*b^16 + 64*b^18)*b^8/((a^2 - b^2)^14*a^10 \\
& *d^6))^(1/3) + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^3/(a^16*d^2 - 7*a^14*b^2*d^2 + 21 \\
& *a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4* \\
& b^12*d^2 - a^2*b^14*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^10 + 64 \\
& *b^12)/(a^24*d^6 - 7*a^22*b^2*d^6 + 21*a^20*b^4*d^6 - 35*a^18*b^6*d^6 + 35* \\
& a^16*b^8*d^6 - 21*a^14*b^10*d^6 + 7*a^12*b^12*d^6 - a^10*b^14*d^6) - 5/1180 \\
& 98*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)*(1 \\
& 029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/((a^18*d^4 - 7*a^16*b^2*d^4 + 21*a^1 \\
& 4*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8*b^10*d^4 + 7*a^6*b^1 \\
& 2*d^4 - a^4*b^14*d^4)*(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - 35*a^1 \\
& 0*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^ \\
& 2)) + 1/1062882*(117649*a^18 - 8700881*a^16*b^2 - 388257821*a^14*b^4 - 9135 \\
& 33166*a^12*b^6 - 89240711*a^10*b^8 + 64339744*a^8*b^10 - 5882401*a^6*b^12 +
\end{aligned}$$

$$\begin{aligned}
& 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{\frac{1}{3}} \\
& + 162(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35 \\
& *b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8 \\
& b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2 + 3\sqrt[3]{(a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6 \\
& *b^{10} + 7a^4b^{12} - a^2b^{14})d^2}\sqrt[3]{(1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 113094877432 \\
& 32a^{10}b^{14} + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628 \\
& *a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - \\
& 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*((-I\sqrt{3}) + 1)*((1180a^8 \\
& b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6 \\
& b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6 \\
& d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) \\
& /(-1/531441(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35 \\
& *b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 3 \\
& 5a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062 \\
& 882(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7 \\
& *a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7 \\
& 917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7 \\
& *a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6 \\
& *b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882(117649a^{18} - 8700 \\
& 881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 \\
& + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + \\
& 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{\frac{1}{3}} + 6561(I\sqrt{3}) + 1)*(-1/53 \\
& 1441(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^{\frac{1}{3}} \\
& /((a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8 \\
& d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882(11 \\
& 7649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20} \\
& b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12} \\
& d^6 - a^{10}b^{14}d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4 \\
& *b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))
\end{aligned}$$

$$\begin{aligned}
& d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} \\
& - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^{2*d^4} + 324*(1180a^{24}b^4 + 574a^{22}b^6 - 29141a^{20}b^8 + 89124a^{18}b^{10} - 103971a^{16}b^{12} + 14469a^{14}b^{14} + 87591a^{12}b^{16} - 92859a^{10}b^{18} + 38451a^8b^{20} - 4879a^6b^{22} - 574a^4b^{24} + 35a^2b^{26})*((-I*sqrt(3) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^{2*d^4} + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^{3} - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})* (1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^{3} - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)
\end{aligned}$$

$$\begin{aligned}
& - a^4 b^{14} d^4) (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 \\
& d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + \\
& 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 \\
& a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 2590 \\
& 84 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{(1/3)} \\
& + 162 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12} \\
&) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 \\
& d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) d^2 / ((a^{32} - 14 \\
& a^{30} b^2 + 91 a^{28} b^4 - 364 a^{26} b^6 + 1001 a^{24} b^8 - 2002 a^{22} b^{10} + 3 \\
& 003 a^{20} b^{12} - 3432 a^{18} b^{14} + 3003 a^{16} b^{16} - 2002 a^{14} b^{18} + 1001 a^{12} b^{20} \\
& - 364 a^{10} b^{22} + 91 a^8 b^{24} - 14 a^6 b^{26} + a^4 b^{28}) d^4)) / ((a^{16} \\
& - 7 a^{14} b^2 + 21 a^{12} b^4 - 35 a^{10} b^6 + 35 a^8 b^8 - 21 a^6 b^{10} + 7 a^4 \\
& b^{12} - a^2 b^{14}) d^2)) + 1/4374 * \text{sqrt}(1/3) * ((108045 a^{33} b^2 + 1246000 a^ \\
& 31 b^4 - 8252545 a^{29} b^6 + 14362502 a^{27} b^8 + 3119725 a^{25} b^{10} - 4234870 \\
& 5 a^{23} b^{12} + 60187305 a^{21} b^{14} - 37763145 a^{19} b^{16} + 8526966 a^{17} b^{18} + \\
& 1772925 a^{15} b^{20} - 1034740 a^{13} b^{22} + 78295 a^{11} b^{24} - 2660 a^9 b^{26} + \\
& 32 a^7 b^{28}) * ((-I * \text{sqrt}(3) + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 \\
& + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - \\
& 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} \\
& d^2)^2 + 15 * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 \\
& + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 \\
& - a^4 b^{14} d^4)) / (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} \\
& - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 \\
& - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (117649 a^4 b^8 - 5488 a^2 b^{10} \\
& + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 \\
& + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5 \\
& / 118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) \\
& * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 \\
& - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 3 \\
& 5 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - \\
& 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{(1/3)} \\
& + 6561 * (I * \text{sqrt}(3) + 1) * (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5 / 118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))
\end{aligned}$$

$$\begin{aligned}
& ^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \\
& *(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
& *(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \\
&) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)*d^4*\sin(dx + c) + 1134*(117649a^{27}b^4 - 3728410a^{25}b^6 + 23116945a^{23}b^8 - 67318215a^{21}b^{10} + 112433355a^{19}b^{12} - 115334583a^{17}b^{14} + 73197495a^{15}b^{16} - 27454245a^{13}b^{18} + 5360040a^{11}b^{20} - 403555a^9b^{22} + 13684a^7b^{24} - 160a^5b^{26})*d^2*\sin(dx + c))*\sqrt{(1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*((-I*\sqrt{3}) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8
\end{aligned}$$

$$\begin{aligned}
& 700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 \\
& + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} \\
& + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{(1/3)} + 6561*(I*\text{sqrt}(3) + 1)*(-1 \\
& /531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882* \\
& (117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/ \\
& ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64 \\
& 339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2*d^4 + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*\text{sqrt}(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5 \\
& /118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 -
\end{aligned}$$

$$\begin{aligned}
& b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) \\
& - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2 - 3*\sqrt[3]{1/3}*(a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14})*d^2*\sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*((-I*\sqrt{3} + 1))*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)
\end{aligned}$$

$$\begin{aligned}
& b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4 \\
&) / (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - \\
& 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + \\
& 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/10 \\
& 62882 * (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + \\
& 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + \\
& 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + \\
& 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 * \\
& b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - \\
& 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - \\
& 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + \\
& 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 87 \\
& 00881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 \\
& + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} \\
& + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 6561 * (I * \sqrt{3} + 1) * (-1/ \\
& 531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12} \\
&)^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 \\
& b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (\\
& 117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} \\
& b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} \\
& b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 \\
& b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (\\
& (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - \\
& 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} \\
& b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} \\
& d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 8700881 a^{16} \\
& b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 643 \\
& 39744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18} \\
&) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 162 * (1180 a^8 b^4 + 8834 a^6 b^6 \\
& + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} \\
& b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} \\
& d^2 - a^2 b^{14} d^2))^{2 * d^4} + 324 * (1180 a^{24} b^4 + 574 a^{22} b^6 - 29141 a^{20} \\
& b^8 + 89124 a^{18} b^{10} - 103971 a^{16} b^{12} + 14469 a^{14} b^{14} + 87591 a^{12} \\
& b^{16} - 92859 a^{10} b^{18} + 38451 a^8 b^{20} - 4879 a^6 b^{22} - 574 a^4 b^{24} + 3 \\
& 5 a^2 b^{26}) * ((-I * \sqrt{3} + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 \\
& + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - \\
& 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} \\
& d^2)^2 + 15 * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} \\
& b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10}
\end{aligned}$$

$$\begin{aligned}
& 0*d^4 + 7*a^6*b^12*d^4 - a^4*b^14*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6 \\
& *b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^3/(a^16*d^2 - 7*a^14*b^2*d^2 \\
& + 21*a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7* \\
& a^4*b^12*d^2 - a^2*b^14*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^10 \\
& + 64*b^12)/(a^24*d^6 - 7*a^22*b^2*d^6 + 21*a^20*b^4*d^6 - 35*a^18*b^6*d^6 + \\
& 35*a^16*b^8*d^6 - 21*a^14*b^10*d^6 + 7*a^12*b^12*d^6 - a^10*b^14*d^6) - 5/ \\
& 118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12 \\
&)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/((a^18*d^4 - 7*a^16*b^2*d^4 + 21 \\
& *a^14*b^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8*b^10*d^4 + 7*a^6 \\
& *b^12*d^4 - a^4*b^14*d^4)*(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - 35 \\
& *a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^1 \\
& 4*d^2)) + 1/1062882*(117649*a^18 - 8700881*a^16*b^2 - 388257821*a^14*b^4 - \\
& 913533166*a^12*b^6 - 89240711*a^10*b^8 + 64339744*a^8*b^10 - 5882401*a^6*b^ \\
& 12 + 259084*a^4*b^14 - 5936*a^2*b^16 + 64*b^18)*b^8/((a^2 - b^2)^14*a^10*d^ \\
& 6))^(1/3) + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + \\
& 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)^3/(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^ \\
& 12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^1 \\
& 2*d^2 - a^2*b^14*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^10 + 64*b^ \\
& 12)/(a^24*d^6 - 7*a^22*b^2*d^6 + 21*a^20*b^4*d^6 - 35*a^18*b^6*d^6 + 35*a^1 \\
& 6*b^8*d^6 - 21*a^14*b^10*d^6 + 7*a^12*b^12*d^6 - a^10*b^14*d^6) - 5/118098* \\
& (1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^12)*(1029 \\
& *a^4*b^6 - 3173*a^2*b^8 + 119*b^10)/((a^18*d^4 - 7*a^16*b^2*d^4 + 21*a^14*b \\
& ^4*d^4 - 35*a^12*b^6*d^4 + 35*a^10*b^8*d^4 - 21*a^8*b^10*d^4 + 7*a^6*b^12*d \\
& ^4 - a^4*b^14*d^4)*(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - 35*a^10*b \\
& ^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^2)) \\
& + 1/1062882*(117649*a^18 - 8700881*a^16*b^2 - 388257821*a^14*b^4 - 9135331 \\
& 66*a^12*b^6 - 89240711*a^10*b^8 + 64339744*a^8*b^10 - 5882401*a^6*b^12 + 25 \\
& 9084*a^4*b^14 - 5936*a^2*b^16 + 64*b^18)*b^8/((a^2 - b^2)^14*a^10*d^6))^(1/ \\
& 3) + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^10 - 35*b^ \\
& 12)/(a^16*d^2 - 7*a^14*b^2*d^2 + 21*a^12*b^4*d^2 - 35*a^10*b^6*d^2 + 35*a^8 \\
& *b^8*d^2 - 21*a^6*b^10*d^2 + 7*a^4*b^12*d^2 - a^2*b^14*d^2))*d^2)/((a^32 - \\
& 14*a^30*b^2 + 91*a^28*b^4 - 364*a^26*b^6 + 1001*a^24*b^8 - 2002*a^22*b^10 + \\
& 3003*a^20*b^12 - 3432*a^18*b^14 + 3003*a^16*b^16 - 2002*a^14*b^18 + 1001*a \\
& ^12*b^20 - 364*a^10*b^22 + 91*a^8*b^24 - 14*a^6*b^26 + a^4*b^28)*d^4))/((a \\
& ^16 - 7*a^14*b^2 + 21*a^12*b^4 - 35*a^10*b^6 + 35*a^8*b^8 - 21*a^6*b^10 + 7 \\
& *a^4*b^12 - a^2*b^14)*d^2))*log(161414428*a^20*b^7 - 11941373500*a^18*b^9 - \\
& 532411302220*a^16*b^11 - 1240943253480*a^14*b^13 - 93205194180*a^12*b^15 + \\
& 91129831520*a^10*b^17 - 10129525980*a^8*b^19 + 543700080*a^6*b^21 - 164348 \\
& 80*a^4*b^23 + 277760*a^2*b^25 - 2048*b^27 + 1/13122*(108045*a^33*b^2 + 1246
\end{aligned}$$

$$\begin{aligned}
& 000*a^{31}*b^4 - 8252545*a^{29}*b^6 + 14362502*a^{27}*b^8 + 3119725*a^{25}*b^{10} - 4 \\
& 2348705*a^{23}*b^{12} + 60187305*a^{21}*b^{14} - 37763145*a^{19}*b^{16} + 8526966*a^{17}* \\
& b^{18} + 1772925*a^{15}*b^{20} - 1034740*a^{13}*b^{22} + 78295*a^{11}*b^{24} - 2660*a^9*b \\
& ^{26} + 32*a^7*b^{28})*((-I*\sqrt{3}) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a \\
& ^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4 \\
& *d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 \\
& - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - \\
& 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21* \\
& a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8 \\
& 834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b \\
& ^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d \\
& ^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^ \\
& 2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^ \\
& 6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^ \\
& 6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - \\
& 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d \\
& ^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 \\
& + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d \\
& ^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - \\
& a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14} \\
& *b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401 \\
& *a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}* \\
& a^{10}*d^6))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6 \\
& *b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7* \\
& a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} \\
& + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + \\
& 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/ \\
& 118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
&)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21 \\
& *a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6 \\
& *b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35 \\
& *a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{1 \\
& 4*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - \\
& 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^ \\
& 12 + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^ \\
& 6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + \\
& 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2*d^4*s
\end{aligned}$$

$$\begin{aligned} & \ln(dx + c) - \frac{1}{81} \cdot (823543a^{27}b^4 + 356380430a^{25}b^6 + 10113422305a^{23} \\ & \cdot b^8 + 67531592520a^{21}b^{10} + 143044567575a^{19}b^{12} + 98746645158a^{17}b^{14} \\ & + 15418943610a^{15}b^{16} - 1382094090a^{13}b^{18} - 23892960a^{11}b^{20} + 51 \\ & 79370a^9b^{22} - 191576a^7b^{24} + 2240a^5b^{26}) \cdot ((-I\sqrt{3}) + 1) \cdot ((1180a^8b^4 \\ & + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 \\ & - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21 \\ & a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 \cdot (1029a^4b^6 - 3173a^2b^8 \\ & + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 \\ & + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\ &)) / (-1/531441 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - \\ & 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + \\ & 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/10 \\ & 62882 \cdot (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 \\ & + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + \\ & 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \cdot (1180a^8b^4 + 8834a^6b^6 + \\ & 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \cdot (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) \\ & / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 \\ & - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \cdot (a^{16}d^2 - \\ & 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\ & + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 \cdot (117649a^{18} - 87 \\ & 00881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 \\ & + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} \\ & + 64b^{18}) \cdot b^8 / ((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 6561 \cdot (I\sqrt{3}) + 1) \cdot (-1/ \\ & 531441 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \\ &)^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8 \\ & b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 \cdot (\\ & 117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20} \\ & b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12} \\ & b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4 \\ & b^8 + 329a^2b^{10} - 35b^{12}) \cdot (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (\\ & (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 \\ & - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \cdot (a^{16}d^2 - 7a^{14} \\ & b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10} \\ & d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 \cdot (117649a^{18} - 8700881a^{16} \\ & b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 643 \\ & 39744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) \\ & \cdot b^8 / ((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162 \cdot (1180a^8b^4 + 8834a^6b^6 \\ & + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12} \\ & b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \end{aligned}$$

$$\begin{aligned}
& 12*d^2 - a^2*b^{14}*d^2)) * d^2 * \sin(d*x + c) + 1/78732 * \sqrt{2/3} * \sqrt{1/6} * ((24 \\
& 01*a^{37} + 48524*a^{35}*b^2 - 1682975*a^{33}*b^4 + 6603275*a^{31}*b^6 - 4665683*a^{29}*b^8 \\
& - 22089037*a^{27}*b^{10} + 59373627*a^{25}*b^{12} - 63314565*a^{23}*b^{14} + 298 \\
& 91400*a^{21}*b^{16} - 748909*a^{19}*b^{18} - 4864664*a^{17}*b^{20} + 1529774*a^{15}*b^{22} \\
& - 85010*a^{13}*b^{24} + 1850*a^{11}*b^{26} - 8*a^9*b^{28}) * ((-I*\sqrt{3}) + 1) * ((1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2 / (a^{16}*d^2 \\
& - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21* \\
& a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10}) / (a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
& + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
&) / (-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 3 \\
& 5*b^{12})^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + \\
& 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/106 \\
& 2882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 \\
& + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + \\
& 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + \\
& 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) * (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) \\
&) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 \\
& - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) * (a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 \\
& + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 870 \\
& 0881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 \\
& + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + \\
& 64*b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6))^{1/3} + 6561 * (I*\sqrt{3}) + 1) * (-1/5 \\
& 31441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) \\
& ^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(1 \\
& 17649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}* \\
& b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}* \\
& b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4* \\
& b^8 + 329*a^2*b^{10} - 35*b^{12}) * (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((\\
& a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8* \\
& *d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) * (a^{16}*d^2 - 7*a^{14}* \\
& b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}* \\
& d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}* \\
& b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 6433 \\
& 9744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18} \\
&) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6))^{1/3} + 162 * (1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^
\end{aligned}$$

$$\begin{aligned}
& 12*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& 2*d^2 - a^2*b^{14}*d^2)^2*d^5*\cos(dx + c) - 162*(9947343*a^{29}*b^4 + 2927900 \\
& 08*a^{27}*b^6 - 2753097753*a^{25}*b^8 - 44962633450*a^{23}*b^{10} - 129793230435*a^{21} \\
& *b^{12} - 112855972122*a^{19}*b^{14} - 25039968999*a^{17}*b^{16} + 1092578394*a^{15} \\
& *b^{18} + 138817665*a^{13}*b^{20} - 11962860*a^{11}*b^{22} + 398384*a^9*b^{24} - 6864*a^7 \\
& *b^{26} + 64*a^5*b^{28})*((-I*\sqrt{3}) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 791 \\
& 7*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12} \\
& *b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& ^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 \\
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - \\
& 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14} \\
& *b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10} \\
& *d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488 \\
& *a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18} \\
& *b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14} \\
& *d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2 \\
& *d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10} \\
& *d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4 \\
& *d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 \\
& - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14} \\
& *b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882 \\
& 401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14} \\
& *a^{10}*d^6))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180*a^8*b^4 + 8834 \\
& *a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2 \\
& *d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
& 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} \\
& + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 \\
& + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - \\
& 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
& *(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + \\
& 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7 \\
& *a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - \\
& 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2 \\
& *b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 \\
& - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6 \\
& *b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14} \\
& *a^{10} \\
& *d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^
\end{aligned}$$

$$\begin{aligned}
& 10 - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^3* \\
& \cos(d*x + c) - 26244*(31294634*a^{23}*b^6 + 3250929990*a^{21}*b^8 + 73171807478 \\
& *a^{19}*b^{10} + 245222572301*a^{17}*b^{12} + 233351795684*a^{15}*b^{14} + 43340511440* \\
& a^{13}*b^{16} - 5121621985*a^{11}*b^{18} + 198326192*a^9*b^{20} - 3185326*a^7*b^{22} + \\
& 19656*a^5*b^{24} - 64*a^3*b^{26})*d*\cos(d*x + c) - 3*sqrt(1/3)*((2401*a^{37} + 48 \\
& 524*a^{35}*b^2 - 1682975*a^{33}*b^4 + 6603275*a^{31}*b^6 - 4665683*a^{29}*b^8 - 220 \\
& 89037*a^{27}*b^{10} + 59373627*a^{25}*b^{12} - 63314565*a^{23}*b^{14} + 29891400*a^{21}*b \\
& ^{16} - 748909*a^{19}*b^{18} - 4864664*a^{17}*b^{20} + 1529774*a^{15}*b^{22} - 85010*a^{13} \\
& *b^{24} + 1850*a^{11}*b^{26} - 8*a^9*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 883 \\
& 4*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2 \\
& *d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 \\
& + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119 \\
& *b^{10}))/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35* \\
& a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441 \\
& *(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a \\
& ^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d \\
& ^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649 \\
& *a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}))/((a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4 \\
& *d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}* \\
& d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
& + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}))/((a^{18}* \\
& d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 \\
& - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& ^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
& 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 \\
& - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744* \\
& a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8 \\
& /((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180* \\
& a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 \\
& - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21 \\
& *a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 \\
& - 5488*a^2*b^{10} + 64*b^{12}))/((a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - \\
& 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a \\
& ^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329* \\
& a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}))/((a^{18}*d^4 - 7 \\
& *a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8 \\
& *b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21 \\
& *a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*
\end{aligned}$$

$$\begin{aligned}
& b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388 \\
& 257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 \\
& - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 \\
& + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - \\
& 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) \\
& *d^5*\cos(dx + c) + 162*(1447803a^{29}b^4 - 2113034a^{27}b^6 - 24 \\
& 206406a^{25}b^8 + 106832600a^{23}b^{10} - 196587030a^{21}b^{12} + 192986604a^{19} \\
& 9b^{14} - 98610792a^{17}b^{16} + 16488192a^{15}b^{18} + 6358275a^{13}b^{20} - 2792 \\
& 370a^{11}b^{22} + 202118a^9b^{24} - 6024a^7b^{26} + 64a^5b^{28})d^3*\cos(dx \\
& + c))*\sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14} \\
& *b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525774092* \\
& a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} \\
& - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 100 \\
& 1a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} \\
& - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6 \\
& b^{26} + a^4b^{28})*((-I*\sqrt{3}) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 \\
& + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& *d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 \\
& - a^2b^{14}d^2))^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - \\
& 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8 \\
& b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8 \\
& 834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2 \\
& ^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& ^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2 \\
& 2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6 \\
& 6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6 \\
& 6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - \\
& 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 \\
& ^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 \\
& + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& ^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - \\
& a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14} \\
& *b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401 \\
& *a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14} \\
& a^{10}d^6))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6 \\
& *b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 \\
& + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4 \\
& b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10}
\end{aligned}$$

$$\begin{aligned}
& + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + \\
& 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/ \\
& 118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
&)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21 \\
& *a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6 \\
& *b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35 \\
& *a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - \\
& 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + \\
& 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2*d^4 + \\
& 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103 \\
& 971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451 \\
& *a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*(\\
& (1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16} \\
& *d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - \\
& 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35 \\
& *a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14} \\
& *d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6 \\
& *d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 \\
& - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2 \\
& *d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10} \\
& *d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6 \\
& *b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
& + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16} \\
& *d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} \\
& - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10} \\
& *b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2 \\
& *b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 6561*(I*sqrt(3) + 1 \\
&)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 3 \\
& 5*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + \\
& 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/106 \\
& 2882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6
\end{aligned}$$

$$\begin{aligned}
& + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + \\
& 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + \\
& 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2)/((a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 - 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a^{18}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} + 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*d^4))*sqrt(-(573480*a^8*b^4 + 4293324*a^6*b^6 + 3847662*a^4*b^8 + 159894*a^2*b^{10} - 17010*b^{12} - (a^{16} - 7*a^{14}*b^2 + 21*a^{12}*b^4 - 35*a^{10}*b^6 + 35*a^8*b^8 - 21*a^6*b^{10} + 7*a^4*b^{12} - a^2*b^{14})*((-I*sqrt(3) + 1))*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4
\end{aligned}$$

$$\begin{aligned}
& *d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 \\
& - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a \\
& ^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8* \\
& d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180* \\
& a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b \\
& ^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 \\
& - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a \\
& ^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1 \\
& 062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{1 \\
& 2}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a \\
& ^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 1 \\
& 62*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a \\
& ^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d \\
& ^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2 - 3*sqrt(1/3)*(a \\
& ^{16} - 7*a^{14}*b^2 + 21*a^{12}*b^4 - 35*a^{10}*b^6 + 35*a^8*b^8 - 21*a^6*b^{10} + 7 \\
& *a^4*b^{12} - a^2*b^{14})*d^2*sqrt((1620304560*a^{18}*b^6 + 93287972160*a^{16}*b^8 \\
& + 1710611738640*a^{14}*b^{10} + 7452303136992*a^{12}*b^{12} + 11309487743232*a^{10}*b \\
& ^{14} + 5170525774092*a^8*b^{16} + 484282579032*a^6*b^{18} - 75640115628*a^4*b^{20} \\
& + 44948098880*a^2*b^{22} - 90935460*b^{24} - (a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 \\
& - 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a^{1 \\
& 8}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} + \\
& 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8 \\
& 834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b \\
& ^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d \\
& ^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 1 \\
& 19*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 3 \\
& 5*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/5314 \\
& 41*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/ \\
& (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8 \\
& *d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(1176 \\
& 49*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}* \\
& b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{1 \\
& 2}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b \\
& ^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{1 \\
& 8}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^ \\
& 4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2 \\
& *d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 \\
& + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}
\end{aligned}$$

$$\begin{aligned}
& b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 6433974 \\
& 4a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * \\
& b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{1/3} + 6561 * (I * \text{sqrt}(3) + 1) * (-1/531441 * (118 \\
& 0a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d \\
& ^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - \\
& 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4 * \\
& b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 \\
& - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - \\
& a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 32 \\
& 9a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - \\
& 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^ \\
& a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + \\
& 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^ \\
& 4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 3 \\
& 88257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 6433974a^8b \\
& ^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a \\
& ^2 - b^2)^{14} a^{10} d^6)^{1/3} + 162 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4 \\
& * b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^ \\
& 2b^{14}d^2)^2 d^4 + 324 * (1180a^{24}b^4 + 574a^{22}b^6 - 29141a^{20}b^8 + 8 \\
& 9124a^{18}b^{10} - 103971a^{16}b^{12} + 14469a^{14}b^{14} + 87591a^{12}b^{16} - 928 \\
& 59a^{10}b^{18} + 38451a^8b^{20} - 4879a^6b^{22} - 574a^4b^{24} + 35a^2b^{26}) \\
& * ((-I * \text{sqrt}(3) + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b \\
& ^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6 \\
& * d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 \\
& + 15 * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + \\
& 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^ \\
& ^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917 \\
& * a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^ \\
& ^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^ \\
& 2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / \\
& (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^ \\
& 8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (118 \\
& 0a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4 \\
& * b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d \\
& ^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - \\
& a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d \\
& ^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1 \\
& / 1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a
\end{aligned}$$

$$\begin{aligned}
& ^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084 \\
& *a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + \\
& 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 \\
& 8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2 \\
& *b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d \\
& ^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - \\
& 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b \\
& ^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - \\
& 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35 \\
& *a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14} \\
& d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35 \\
& *a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/106288 \\
& 2*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 \\
& - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} \\
& - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1 \\
& 180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d \\
& ^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - \\
& 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)*d^2)/((a^{32} - 14a^{30}b^2 \\
& + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20} \\
& b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - \\
& 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})d^4))/((a^{16} - 7a^{14} \\
& b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - \\
& a^2b^{14})d^2)) - 1/4374*\sqrt{1/3}*((108045a^{33}b^2 + 1246000a^{31}b^4 - \\
& 8252545a^{29}b^6 + 14362502a^{27}b^8 + 3119725a^{25}b^{10} - 42348705a^{23}b^{12} \\
& + 60187305a^{21}b^{14} - 37763145a^{19}b^{16} + 8526966a^{17}b^{18} + 1772925 \\
& a^{15}b^{20} - 1034740a^{13}b^{22} + 78295a^{11}b^{24} - 2660a^9b^{26} + 32a^7b^{28} \\
& 28)*((-I*\sqrt{3} + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2 \\
& b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10} \\
& b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \\
& ^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 \\
& + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + \\
& 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7 \\
& 917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12} \\
& b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12} \\
& d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12} \\
& 2)/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16} \\
& b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(\\
& 1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029*
\end{aligned}$$

$$\begin{aligned}
& a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) \\
& + 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} \\
&) + 6561 * (I * \sqrt{3} + 1) * (-1/531441 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 * (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 * (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 162 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) * d^4 * \sin(dx + c) + 1134 * (117649 a^{27} b^4 - 3728410 a^{25} b^6 + 23116945 a^{23} b^8 - 67318215 a^{21} b^{10} + 112433355 a^{19} b^{12} - 115334583 a^{17} b^{14} + 73197495 a^{15} b^{16} - 27454245 a^{13} b^{18} + 5360040 a^{11} b^{20} - 403555 a^9 b^{22} + 13684 a^7 b^{24} - 160 a^5 b^{26}) * d^2 * \sin(dx + c) * \sqrt{((1620304560 a^{18} b^6 + 93287972160 a^{16} b^8 + 1710611738640 a^{14} b^{10} + 7452303136992 a^{12} b^{12} + 11309487743232 a^{10} b^{14} + 5170525774092 a^8 b^{16} + 484282579032 a^6 b^{18} - 75640115628 a^4 b^{20} + 4494809880 a^2 b^{22} - 90935460 b^{24} - (a^{32} - 14 a^{30} b^2 + 91 a^{28} b^4 - 364 a^{26} b^6 + 1001 a^{24} b^8 - 2002 a^{22} b^{10} + 3003 a^{20} b^{12} - 3432 a^{18} b^{14} + 3003 a^{16} b^{16} - 2002 a^{14} b^{18} + 1001 a^{12} b^{20} - 364 a^{10} b^{22} + 91 a^8 b^{24} - 14 a^6 b^{26} + a^4 b^{28}) * ((-I * \sqrt{3} + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^2 + 15 * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/5
\end{aligned}$$

$$\begin{aligned}
& 31441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) \\
& ^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(1 \\
& 17649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}* \\
& b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}* \\
& b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4* \\
& b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((\\
& a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8* \\
& *d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}* \\
& b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}* \\
& d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}* \\
& b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 6433 \\
& 9744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18} \\
&)*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(\\
& 1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}* \\
& d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4* \\
& b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4* \\
& d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 \\
& - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
& 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 \\
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - \\
& 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7 \\
& *a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 \\
& - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8* \\
& b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/ \\
& ((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917* \\
& a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4* \\
& d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - \\
& a^2*b^{14}*d^2))^2*d^4 + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 \\
& + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - \\
& 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26} \\
&)*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2* \\
& b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}* \\
& b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2) \\
& ^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 \\
& + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + \\
& 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7
\end{aligned}$$

$$\begin{aligned}
& 917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) \\
& + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2)/((a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*d^4) - 2*(2363568410a^{19}b^8 + 68245683058a^{17}b^{10} + 88199223245a^{15}b^{12} - 166764852730a^{13}b^{14} - 52364240705a^{11}b^{16} + 7090272980a^9b^{18} - 352540783a^7b^{20} + 8295940a^5b^{22} - 75040a^3b^{24})*\sin(dx + c) - \sqrt{2/3}*\sqrt{1/6}*((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6)*d*\cos(dx + c))^3 - ((a^7b - 3a^5b^3 + 3a^3b^5 - a*b^7)*d*\cos(dx + c))^5 - (a^7b - 3a^5b^3 + 3a^3b^5 - a*b^7)*d*\cos(dx + c)^3)*\sin(dx + c))*\sqrt{-(573480a^8b^4 + 4293324*
\end{aligned}$$

$$\begin{aligned}
& a^6 b^6 + 3847662 a^4 b^8 + 159894 a^2 b^{10} - 17010 b^{12} - (a^{16} - 7 a^{14} b^2 + 21 a^{12} b^4 - 35 a^{10} b^6 + 35 a^8 b^8 - 21 a^6 b^{10} + 7 a^4 b^{12} - a^2 b^{14}) \\
& \cdot ((-I \sqrt{3}) + 1) \cdot ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2 \\
& + 15 \cdot (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/531441 \cdot (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 \\
& - 1/1062882 \cdot (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 \cdot (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) \cdot (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) \cdot (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2) \\
& + 1/1062882 \cdot (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) \cdot b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{1/3} \\
& + 6561 \cdot (I \sqrt{3}) + 1) \cdot (-1/531441 \cdot (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 \\
& - 1/1062882 \cdot (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 \cdot (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) \cdot (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) \cdot (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2) \\
& + 1/1062882 \cdot (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) \cdot b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{1/3} \\
& + 162 \cdot (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2) \cdot d^2 + 3 \sqrt{1/3} \cdot (a^{16} - 7 a^{14} b^2 + 21 a^{12} b^4 - 35 a^{10} b^6 + 35 a^8 b^8 - 21 a^6 b^{10} +
\end{aligned}$$

$$\begin{aligned}
& 7a^4b^{12} - a^2b^{14})d^2\sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10} \\
& *b^{14} + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} \\
& + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})((-I\sqrt{3}) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14} \\
& *b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/53 \\
& 1441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(11 \\
& 7649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4 \\
& *b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& ^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339 \\
& 744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18} \\
&)*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I\sqrt{3}) + 1)*(-1/531441*(1 \\
& 180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16} \\
& *d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 \\
& - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4 \\
& *b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 \\
& - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 \\
& - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + \\
& 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 \\
& - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 2 \\
& 1a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 \\
& + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a \\
& a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - \\
& 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8 \\
& *b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/(
\end{aligned}$$

$$\begin{aligned}
& ((a^2 - b^2)^{14} a^{10} d^6)^{1/3} + 162 * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^{2 d^4} \\
& + 324 * ((1180 a^{24} b^4 + 574 a^{22} b^6 - 29141 a^{20} b^8 + 89124 a^{18} b^{10} - 103971 a^{16} b^{12} + 14469 a^{14} b^{14} + 87591 a^{12} b^{16} - 92859 a^{10} b^{18} + 38451 a^8 b^{20} - 4879 a^6 b^{22} - 574 a^4 b^{24} + 35 a^2 b^{26}) * ((-I * \sqrt{3}) + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^{2 d^4} \\
& + 15 * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) / (-1/531441 * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^{3 d^6} - 1/1062882 * ((117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))) + 1/1062882 * ((117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{1/3} + 6561 * (I * \sqrt{3}) + 1) * (-1/531441 * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^{3 d^6} - 1/1062882 * ((117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) * (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) * (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))) + 1/1062882 * ((117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) * b^8 / ((a^2 - b^2)^{14} a^{10} d^6))^{1/3} + 162 *
\end{aligned}$$

$$\begin{aligned}
& (1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16} \\
& *d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2)/((a^{32} - 14*a^{30}*b \\
& ^2 + 91*a^{28}*b^4 - 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20} \\
& *b^{12} - 3432*a^{18}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} \\
& - 364*a^{10}*b^{22} + 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*d^4))/((a^{16} - 7*a \\
& ^{14}*b^2 + 21*a^{12}*b^4 - 35*a^{10}*b^6 + 35*a^8*b^8 - 21*a^6*b^{10} + 7*a^4*b^{12} \\
& - a^2*b^{14})*d^2))*\log(-161414428*a^{20}*b^7 + 11941373500*a^{18}*b^9 + 5324113 \\
& 02220*a^{16}*b^{11} + 1240943253480*a^{14}*b^{13} + 93205194180*a^{12}*b^{15} - 9112983 \\
& 1520*a^{10}*b^{17} + 10129525980*a^8*b^{19} - 543700080*a^6*b^{21} + 16434880*a^4*b \\
& ^{23} - 277760*a^2*b^{25} + 2048*b^{27} - 1/13122*(108045*a^{33}*b^2 + 1246000*a^{31} \\
& *b^4 - 8252545*a^{29}*b^6 + 14362502*a^{27}*b^8 + 3119725*a^{25}*b^{10} - 42348705* \\
& a^{23}*b^{12} + 60187305*a^{21}*b^{14} - 37763145*a^{19}*b^{16} + 8526966*a^{17}*b^{18} + 1 \\
& 772925*a^{15}*b^{20} - 1034740*a^{13}*b^{22} + 78295*a^{11}*b^{24} - 2660*a^9*b^{26} + 32 \\
& *a^7*b^{28})*((-I*\sqrt{3}) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
& 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 3 \\
& 5*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}* \\
& b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10} \\
& *d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6* \\
& b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + \\
& 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a \\
& ^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + \\
& 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + \\
& 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/1 \\
& 18098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) \\
& *(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21* \\
& a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6* \\
& b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35* \\
& a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 9 \\
& 13533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6 \\
&))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7 \\
& 917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12} \\
& *b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& *d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12} \\
&)/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16} \\
& *b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(
\end{aligned}$$

$$\begin{aligned}
& 1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029* \\
& a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4 \\
& *d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 \\
& - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6 \\
& *d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) \\
& + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 91353316 \\
& 6*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259 \\
& 084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3 \\
&) + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
&)/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^{2*d^4*\sin(dx + \\
& c) + 1/81*(823543*a^{27}*b^4 + 356380430*a^{25}*b^6 + 10113422305*a^{23}*b^8 + 6 \\
& 7531592520*a^{21}*b^{10} + 143044567575*a^{19}*b^{12} + 98746645158*a^{17}*b^{14} + 154 \\
& 18943610*a^{15}*b^{16} - 1382094090*a^{13}*b^{18} - 23892960*a^{11}*b^{20} + 5179370*a^9* \\
& b^{22} - 191576*a^7*b^{24} + 2240*a^5*b^{26})*((-I*\sqrt{3}) + 1)*((1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14} \\
& *b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10} \\
& *d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
& + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/5 \\
& 31441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) \\
& ^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(1 \\
& 17649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20} \\
& *b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}* \\
& b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4 \\
& *b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((\\
& a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8 \\
& *d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14} \\
& *b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10} \\
& *d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16} \\
& *b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 6433 \\
& 9744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18} \\
&)*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3) + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(\\
& 1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16} \\
& *d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4 \\
& *b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4* \\
& d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6
\end{aligned}$$

$$\begin{aligned}
& 6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + \\
& 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 \\
& 4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - \\
& 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 \\
& + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7 \\
& *a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 \\
& - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8 \\
& *b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/ \\
& ((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917* \\
& a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4* \\
& d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - \\
& a^2b^{14}d^2))*d^2*\sin(dx + c) - 1/78732*\sqrt{2/3}*\sqrt{1/6}*((2401a^{37} \\
& + 48524a^{35}b^2 - 1682975a^{33}b^4 + 6603275a^{31}b^6 - 4665683a^{29}b^8 - \\
& 22089037a^{27}b^{10} + 59373627a^{25}b^{12} - 63314565a^{23}b^{14} + 29891400a^{21} \\
& *b^{16} - 748909a^{19}b^{18} - 4864664a^{17}b^{20} + 1529774a^{15}b^{22} - 85010* \\
& a^{13}b^{24} + 1850a^{11}b^{26} - 8a^9b^{28})*((-I*\sqrt{3}) + 1)*((1180a^8b^4 + \\
& 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14} \\
& *b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10} \\
& *d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + \\
& 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + \\
& 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/53 \\
& 1441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 \\
& /((a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8 \\
& *d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(11 \\
& 7649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^2 \\
& 0b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12} \\
& *d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4 \\
& *b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a \\
& ^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8* \\
& d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2 \\
& *d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& ^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16} \\
& *b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339 \\
& 744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18} \\
&)*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1 \\
& 180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16} \\
& *d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 \\
& - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4 \\
& *b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6
\end{aligned}$$

$$\begin{aligned}
&^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 \\
&- a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
&329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 \\
&- 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 2 \\
&1*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
&+ 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7* \\
&a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
&388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8 \\
&*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/(\\
&(a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
&+ 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 \\
&^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - \\
&a^2*b^{14}*d^2))^2*d^5*\cos(dx + c) - 162*(9947343*a^{29}*b^4 + 292790008*a^{27}* \\
&b^6 - 2753097753*a^{25}*b^8 - 44962633450*a^{23}*b^{10} - 129793230435*a^{21}*b^{12} \\
&- 112855972122*a^{19}*b^{14} - 25039968999*a^{17}*b^{16} + 1092578394*a^{15}*b^{18} + 1 \\
&38817665*a^{13}*b^{20} - 11962860*a^{11}*b^{22} + 398384*a^9*b^{24} - 6864*a^7*b^{26} + \\
&64*a^5*b^{28})*((-I*\sqrt{3}) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
&8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 \\
&- 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2 \\
&*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^ \\
&16*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b \\
&^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a \\
&^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^ \\
&2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
&7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} \\
&0 + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 \\
&+ 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - \\
&5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
&12)*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + \\
&21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a \\
&^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - \\
&35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b \\
&^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 \\
&- 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6* \\
&b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}* \\
&d^6))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 \\
&+ 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21* \\
&a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b \\
&^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*
\end{aligned}$$

$$\begin{aligned}
& b^{12}/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/11809 \\
& 8*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(10 \\
& 29a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14} \\
& b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12} \\
& d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10} \\
& b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2 \\
&)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 91353 \\
& 3166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + \\
& 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(\\
& 1/3) + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35 \\
& b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^ \\
& ^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^3*\cos(dx \\
& + c) - 26244*(31294634a^{23}b^6 + 3250929990a^{21}b^8 + 73171807478a^{19}b^{10} \\
& + 245222572301a^{17}b^{12} + 233351795684a^{15}b^{14} + 43340511440a^{13}b^{16} \\
& - 5121621985a^{11}b^{18} + 198326192a^9b^{20} - 3185326a^7b^{22} + 19656a^5 \\
& b^{24} - 64a^3b^{26})*d*\cos(dx + c) + 3*\sqrt{1/3}*((2401a^{37} + 48524a^{35} \\
& *b^2 - 1682975a^{33}b^4 + 6603275a^{31}b^6 - 4665683a^{29}b^8 - 22089037a^{27} \\
& b^{10} + 59373627a^{25}b^{12} - 63314565a^{23}b^{14} + 29891400a^{21}b^{16} - 74 \\
& 8909a^{19}b^{18} - 4864664a^{17}b^{20} + 1529774a^{15}b^{22} - 85010a^{13}b^{24} + \\
& 1850a^{11}b^{26} - 8a^9b^{28})*((-I*\sqrt{3}) + 1)*((1180a^8b^4 + 8834a^6b^6 \\
& + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 2 \\
& 1a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4 \\
& b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(\\
& a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8 \\
& d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^ \\
& ^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 \\
& - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^ \\
& a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 \\
& - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - \\
& 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10} \\
& b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^ \\
& ^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a \\
& a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8 \\
& b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a \\
& a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b \\
& ^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 3882 \\
& 57821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} \\
& - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2
\end{aligned}$$

$$\begin{aligned}
& - b^2)^{14} a^{10} d^6)^{1/3} + 6561 (I \sqrt{3} + 1) (-1/531441 (1180 a^8 b^4 \\
& + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} \\
& b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} \\
& d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 (117649 a^4 b^8 - 5488 \\
& a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} \\
& b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} \\
& d^6) - 5/118098 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} \\
& - 35 b^{12}) (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 \\
& d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 \\
& + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 \\
& d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 \\
& - a^2 b^{14} d^2)) + 1/1062882 (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a \\
& ^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882 \\
& 401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} \\
& a^{10} d^6)^{1/3} + 162 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 \\
& a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} \\
& b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2 \\
&)) d^5 \cos(dx + c) + 162 (1447803 a^{29} b^4 - 2113034 a^{27} b^6 - 24206406 a \\
& ^{25} b^8 + 106832600 a^{23} b^{10} - 196587030 a^{21} b^{12} + 192986604 a^{19} b^{14} - \\
& 98610792 a^{17} b^{16} + 16488192 a^{15} b^{18} + 6358275 a^{13} b^{20} - 2792370 a^{11} \\
& b^{22} + 202118 a^9 b^{24} - 6024 a^7 b^{26} + 64 a^5 b^{28}) d^3 \cos(dx + c) \sqrt{ \\
& ((1620304560 a^{18} b^6 + 93287972160 a^{16} b^8 + 1710611738640 a^{14} b^{10} + \\
& 7452303136992 a^{12} b^{12} + 11309487743232 a^{10} b^{14} + 5170525774092 a^8 b^{16} \\
& + 484282579032 a^6 b^{18} - 75640115628 a^4 b^{20} + 4494809880 a^2 b^{22} - 909 \\
& 35460 b^{24} - (a^{32} - 14 a^{30} b^2 + 91 a^{28} b^4 - 364 a^{26} b^6 + 1001 a^{24} b^8 \\
& - 2002 a^{22} b^{10} + 3003 a^{20} b^{12} - 3432 a^{18} b^{14} + 3003 a^{16} b^{16} - 20 \\
& 02 a^{14} b^{18} + 1001 a^{12} b^{20} - 364 a^{10} b^{22} + 91 a^8 b^{24} - 14 a^6 b^{26} + \\
& a^4 b^{28}) * ((-I \sqrt{3} + 1) * ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + \\
& 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 3 \\
& 5 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} \\
& d^2)^2 + 15 (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 \\
& d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} \\
& d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/531441 (1180 a^8 b^4 + 8834 a^6 b^6 \\
& + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + \\
& 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 \\
& b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 (117649 a^4 b^8 - 5488 a^2 b^{10} + \\
& 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + \\
& 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/1 \\
& 18098 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})
\end{aligned}$$

$$\begin{aligned}
& *(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21* \\
& a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6* \\
& b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35* \\
& a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 9 \\
& 13533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{1 \\
& 2 + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6 \\
&))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7 \\
& 917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{1 \\
& 2}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& *d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{1 \\
& 2})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16} \\
& *b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(\\
& 1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029* \\
& a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^ \\
& 4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^ \\
& 4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^ \\
& 6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) \\
& + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 91353316 \\
& 6*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259 \\
& 084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3} \\
&) + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{1 \\
& 2})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2*d^4 + 324*(11 \\
& 80*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16} \\
& *b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{2 \\
& 0 - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*((1180*a^ \\
& 8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a \\
& ^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^ \\
& 2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^ \\
& 6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)) \\
& /(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35 \\
& *b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 3 \\
& 5*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062 \\
& 882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + \\
& 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7 \\
& *a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7 \\
& 917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^
\end{aligned}$$

$$\begin{aligned}
& 10)/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}))^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2)/((a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*d^4))*\sqrt{-(573480a^8b^4 + 4293324a^6b^6 + 3847662a^4b^8 + 159894a^2b^{10} - 17010b^{12} - (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}))*((-I*\sqrt{3} + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}))^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}))^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6)
\end{aligned}$$

$$\begin{aligned}
&^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2 + 3*\sqrt{1/3}*(a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14})*d^2*\sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 171061738640a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*((-I*\sqrt{3} + 1))*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180
\end{aligned}$$

$$\begin{aligned}
& *a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8
\end{aligned}$$

$$\begin{aligned}
& + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - \\
& 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - \\
& 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3 \\
& 173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 \\
& *(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{1/3} + 6561*(I \\
& *sqrt(3) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{1/3} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2)/((a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*d^4))/((a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14})*d^2)) - 1/4374*sqrt(1/3)*((108045a^{33}b^2 + 1246000a^{31}b^4 - 8252545a^{29}b^6 + 14362502a^{27}b^8 + 3119725a^{25}b^{10} - 42348705a^{23}b^{12} + 60187305a^{21}b^{14} - 37763145a^{19}b^{16} + 8526966a^{17}b^{18} + 1772925a^{15}b^{20} - 1034740a^{13}b^{22} + 78295a^{11}b^{24} - 2660a^9b^{26} + 32a^7b^{28})*((-I*sqrt(3) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} -
\end{aligned}$$

$$\begin{aligned}
& 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15* \\
& (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}* \\
& b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}* \\
& d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
& 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - \\
& 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}* \\
& d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}* \\
& d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 \\
& - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8* \\
& b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - \\
& 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - \\
& 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}* \\
& d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + \\
& 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062 \\
& 882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 \\
& - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} \\
& - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561 \\
& *(I*\sqrt{3} + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 3 \\
& 29*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35* \\
& a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}* \\
& d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - \\
& 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}* \\
& b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + \\
& 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173* \\
& a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}* \\
& b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
& *(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8* \\
& b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(11 \\
& 7649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89 \\
& 240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - \\
& 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8* \\
& b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6* \\
& b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^4*\sin(dx + c) + 1134*(11764 \\
& 9*a^{27}*b^4 - 3728410*a^{25}*b^6 + 23116945*a^{23}*b^8 - 67318215*a^{21}*b^{10} + 11 \\
& 2433355*a^{19}*b^{12} - 115334583*a^{17}*b^{14} + 73197495*a^{15}*b^{16} - 27454245*a^{13}* \\
& b^{18} + 5360040*a^{11}*b^{20} - 403555*a^9*b^{22} + 13684*a^7*b^{24} - 160*a^5*b^{26} \\
&)*d^2*\sin(dx + c))*\sqrt{(1620304560*a^{18}*b^6 + 93287972160*a^{16}*b^8 + 171
\end{aligned}$$

$$\begin{aligned}
& 0611738640*a^{14}*b^{10} + 7452303136992*a^{12}*b^{12} + 11309487743232*a^{10}*b^{14} + \\
& 5170525774092*a^8*b^{16} + 484282579032*a^6*b^{18} - 75640115628*a^4*b^{20} + 44 \\
& 94809880*a^2*b^{22} - 90935460*b^{24} - (a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 - 364 \\
& *a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a^{18}*b^{14} \\
& + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} + 91*a^8*b^{24} \\
& - 14*a^6*b^{26} + a^4*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
& + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 \\
& - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 \\
& - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 \\
& + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 \\
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 \\
& + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
& 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8 \\
& *b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 \\
& - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35 \\
& *a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16} \\
& *b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 \\
& - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257 \\
& 821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8
\end{aligned}$$

$$\begin{aligned}
& + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35 \\
& *a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14} \\
& 4d^2))^2d^4 + 324*(1180a^{24}b^4 + 574a^{22}b^6 - 29141a^{20}b^8 + 89124* \\
& a^{18}b^{10} - 103971a^{16}b^{12} + 14469a^{14}b^{14} + 87591a^{12}b^{16} - 92859a^ \\
& 10b^{18} + 38451a^8b^{20} - 4879a^6b^{22} - 574a^4b^{24} + 35a^2b^{26})*((-I \\
& *sqrt(3) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - \\
& 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 \\
& + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^2 + 15* \\
& (1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14} \\
& b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12} \\
& 12d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4* \\
& b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& 2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^ \\
& 2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24} \\
& *d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 \\
& - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8 \\
& *b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 \\
& - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - \\
& 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4* \\
& b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + \\
& 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062 \\
& 882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^ \\
& 6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4* \\
& b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561 \\
& *(I*sqrt(3) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 3 \\
& 29a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35* \\
& a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14} \\
& *d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}*d^6 - \\
& 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^ \\
& ^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8*b^4 + \\
& 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173* \\
& a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12} \\
& *b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4*b^{14}d^ \\
& 4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8* \\
& b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(11 \\
& 7649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89 \\
& 240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - \\
& 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^ \\
& ^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 -
\end{aligned}$$

$$\begin{aligned}
& 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) * d^2) / ((a^{32} - 14a^{30}b^2 + 91 \\
& a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} \\
& - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28}) * d^4)) + 2 * (2363568410a^{19} \\
& b^8 + 68245683058a^{17}b^{10} + 88199223245a^{15}b^{12} - 166764852730a^{13}b^{14} - 52364240705a^{11}b^{16} + 7090272980a^9b^{18} - 352540783a^7b^{20} + 829 \\
& 5940a^5b^{22} - 75040a^3b^{24}) * \sin(dx + c) + \sqrt{2/3} * \sqrt{1/6} * ((a^8 - 3a^6b^2 + 3a^4b^4 - a^2b^6) * d * \cos(dx + c)^3 - ((a^7b - 3a^5b^3 + \\
& 3a^3b^5 - ab^7) * d * \cos(dx + c)^5 - (a^7b - 3a^5b^3 + 3a^3b^5 - ab^7) * d * \cos(dx + c)^3) * \sin(dx + c) * \sqrt{-(573480a^8b^4 + 4293324a^6b^6 \\
& + 3847662a^4b^8 + 159894a^2b^{10} - 17010b^{12} - (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}) * \\
& ((-I * \sqrt{3} + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 \\
& d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 2 \\
& 1a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& 4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (\\
& a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180 \\
& a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - \\
& a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/ \\
& 1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10}d^6))^{(1/3)} + \\
& 6561 * (I * \sqrt{3} + 1) * (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3
\end{aligned}$$

$$\begin{aligned}
 & 173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35* \\
 & a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14} \\
 & 4*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35* \\
 & a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882 \\
 & *(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 \\
 & - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} \\
 & 4 - 5936*a^2*b^{16} + 64*b^{18})*b^8 / ((a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 162*(11 \\
 & 80*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) / (a^{16}*d^2 \\
 & 2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 2 \\
 & 1*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)*d^2 - 3*sqrt(1/3)*(a^{16} - \\
 & 7*a^{14}*b^2 + 21*a^{12}*b^4 - 35*a^{10}*b^6 + 35*a^8*b^8 - 21*a^6*b^{10} + 7*a^4*b \\
 & ^{12} - a^2*b^{14})*d^2*sqrt((1620304560*a^{18}*b^6 + 93287972160*a^{16}*b^8 + 1710 \\
 & 611738640*a^{14}*b^{10} + 7452303136992*a^{12}*b^{12} + 11309487743232*a^{10}*b^{14} + \\
 & 5170525774092*a^8*b^{16} + 484282579032*a^6*b^{18} - 75640115628*a^4*b^{20} + 449 \\
 & 4809880*a^2*b^{22} - 90935460*b^{24} - (a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 - 364* \\
 & a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a^{18}*b^{14} \\
 & + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} + 91*a^ \\
 & 8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^ \\
 & 6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
 & + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7 \\
 & *a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10} \\
 & 0) / (a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10} \\
 & *b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)) / (-1/531441*(11 \\
 & 80*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3 / (a^{16} \\
 & d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - \\
 & 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4 \\
 & *b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 \\
 & - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 \\
 & - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 3 \\
 & 29*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 \\
 & - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21 \\
 & *a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + \\
 & 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a \\
 & ^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
 & 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8* \\
 & b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8 / ((\\
 & a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8* \\
 & b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3 / (a^{16}*d^2 - 7 \\
 & *a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6
 \end{aligned}$$

$$\begin{aligned}
& *b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - \\
& 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2d^4 + 324*(1180a^{24}b^4 + 574a^{22}b^6 - 29141a^{20}b^8 + 89124a^{18}b^{10} - 103971a^{16}b^{12} + 14469a^{14}b^{14} + 87591a^{12}b^{16} - 92859a^{10}b^{18} + 38451a^8b^{20} - 4879a^6b^{22} - 574a^4b^{24} + 35a^2b^{26})*((-I*sqrt(3) + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)
\end{aligned}$$

$$\begin{aligned}
& d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7 \\
& *a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14} \\
& *b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8 \\
& 834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}* \\
& b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4 \\
&)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117 \\
& 649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 892 \\
& 40711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5 \\
& 936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8 \\
& *b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7 \\
& *a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6 \\
& *b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2/((a^{32} - 14*a^{30}*b^2 + 91* \\
& a^{28}*b^4 - 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - \\
& 3432*a^{18}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10} \\
& *b^{22} + 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*d^4))/((a^{16} - 7*a^{14}*b^2 \\
& + 21*a^{12}*b^4 - 35*a^{10}*b^6 + 35*a^8*b^8 - 21*a^6*b^{10} + 7*a^4*b^{12} - a^2*b^{14} \\
& *d^2))*log(-161414428*a^{20}*b^7 + 11941373500*a^{18}*b^9 + 532411302220*a^{16} \\
& *b^{11} + 1240943253480*a^{14}*b^{13} + 93205194180*a^{12}*b^{15} - 91129831520*a^{10} \\
& *b^{17} + 10129525980*a^8*b^{19} - 543700080*a^6*b^{21} + 16434880*a^4*b^{23} - 27 \\
& 7760*a^2*b^{25} + 2048*b^{27} - 1/13122*(108045*a^{33}*b^2 + 1246000*a^{31}*b^4 - 8 \\
& 252545*a^{29}*b^6 + 14362502*a^{27}*b^8 + 3119725*a^{25}*b^{10} - 42348705*a^{23}*b^{12} \\
& + 60187305*a^{21}*b^{14} - 37763145*a^{19}*b^{16} + 8526966*a^{17}*b^{18} + 1772925*a^{15} \\
& *b^{20} - 1034740*a^{13}*b^{22} + 78295*a^{11}*b^{24} - 2660*a^9*b^{26} + 32*a^7*b^{28} \\
& 8)*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2 \\
& *b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6 \\
& *d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 \\
& + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 \\
& + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7 \\
& *a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 79 \\
& 17*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12} \\
& *b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& *d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12} \\
&)/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16} \\
& *b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1 \\
& 180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4 \\
& *b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4 \\
& *d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4
\end{aligned}$$

$$\begin{aligned}
& - a^4 b^{14} d^4 (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2) + \\
& 1/1062882 (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} \\
& + 6561 (I \sqrt{3} + 1) (-1/531441 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^3 - 1/1062882 (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4) (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)) + 1/1062882 (117649 a^{18} - 8700881 a^{16} b^2 - 388257821 a^{14} b^4 - 913533166 a^{12} b^6 - 89240711 a^{10} b^8 + 64339744 a^8 b^{10} - 5882401 a^6 b^{12} + 259084 a^4 b^{14} - 5936 a^2 b^{16} + 64 b^{18}) b^8 / ((a^2 - b^2)^{14} a^{10} d^6)^{(1/3)} + 162 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2)^2 d^4 \sin(dx + c) + 1/81 (823543 a^{27} b^4 + 356380430 a^{25} b^6 + 10113422305 a^{23} b^8 + 67531592520 a^{21} b^{10} + 143044567575 a^{19} b^{12} + 98746645158 a^{17} b^{14} + 15418943610 a^{15} b^{16} - 1382094090 a^{13} b^{18} - 23892960 a^{11} b^{20} + 5179370 a^9 b^{22} - 191576 a^7 b^{24} + 2240 a^5 b^{26}) ((-I \sqrt{3} + 1) ((1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^2 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^2 + 15 (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / (a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)) / (-1/531441 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12})^3 / (a^{16} d^2 - 7 a^{14} b^2 d^2 + 21 a^{12} b^4 d^2 - 35 a^{10} b^6 d^2 + 35 a^8 b^8 d^2 - 21 a^6 b^{10} d^2 + 7 a^4 b^{12} d^2 - a^2 b^{14} d^2))^3 - 1/1062882 (117649 a^4 b^8 - 5488 a^2 b^{10} + 64 b^{12}) / (a^{24} d^6 - 7 a^{22} b^2 d^6 + 21 a^{20} b^4 d^6 - 35 a^{18} b^6 d^6 + 35 a^{16} b^8 d^6 - 21 a^{14} b^{10} d^6 + 7 a^{12} b^{12} d^6 - a^{10} b^{14} d^6) - 5/118098 (1180 a^8 b^4 + 8834 a^6 b^6 + 7917 a^4 b^8 + 329 a^2 b^{10} - 35 b^{12}) (1029 a^4 b^6 - 3173 a^2 b^8 + 119 b^{10}) / ((a^{18} d^4 - 7 a^{16} b^2 d^4 + 21 a^{14} b^4 d^4 - 35 a^{12} b^6 d^4 + 35 a^{10} b^8 d^4 - 21 a^8 b^{10} d^4 + 7 a^6 b^{12} d^4 - a^4 b^{14} d^4)
\end{aligned}$$

$$\begin{aligned}
& 1*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7* \\
& a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
& 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8 \\
& *b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/(\\
& (a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8 \\
& *b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6 \\
& *b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 - \\
& 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35 \\
& *a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10} \\
& *b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2 \\
& *b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^ \\
& 16*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b \\
& ^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^ \\
& 12*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^ \\
& 12*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257 \\
& 821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - \\
& 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - \\
& b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
& + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35 \\
& *a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^ \\
& 14*d^2))*d^2*sin(d*x + c) + 1/78732*sqrt(2/3)*sqrt(1/6)*((2401*a^{37} + 48524* \\
& a^{35}*b^2 - 1682975*a^{33}*b^4 + 6603275*a^{31}*b^6 - 4665683*a^{29}*b^8 - 2208903 \\
& 7*a^{27}*b^{10} + 59373627*a^{25}*b^{12} - 63314565*a^{23}*b^{14} + 29891400*a^{21}*b^{16} \\
& - 748909*a^{19}*b^{18} - 4864664*a^{17}*b^{20} + 1529774*a^{15}*b^{22} - 85010*a^{13}*b^{24} \\
& + 1850*a^{11}*b^{26} - 8*a^9*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6 \\
& *b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7 \\
& *a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10} \\
& 0)/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10} \\
& *b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(11 \\
& 80*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16} \\
& d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - \\
& 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4 \\
& *b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 \\
& - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 \\
& - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 3 \\
& 29*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4
\end{aligned}$$

$$\begin{aligned}
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21 \\
& *a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + \\
& 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a \\
& ^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
& 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8* \\
& b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((\\
& a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8* \\
& b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7 \\
& *a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6 \\
& *b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - \\
& 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35* \\
& a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}* \\
& b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2* \\
& b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16} \\
& *b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10} \\
& *d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12} \\
& *b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& *d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 3882578 \\
& 21*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - \\
& 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b \\
& ^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
& 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35* \\
& a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)^2*d^5*\cos(dx + c) - 162*(9947343*a^{29}*b^4 + 292790008*a^{27}*b^6 - 27 \\
& 53097753*a^{25}*b^8 - 44962633450*a^{23}*b^{10} - 129793230435*a^{21}*b^{12} - 112855 \\
& 972122*a^{19}*b^{14} - 25039968999*a^{17}*b^{16} + 1092578394*a^{15}*b^{18} + 138817665 \\
& *a^{13}*b^{20} - 11962860*a^{11}*b^{22} + 398384*a^9*b^{24} - 6864*a^7*b^{26} + 64*a^5* \\
& b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329* \\
& a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10} \\
& *b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2) \\
& ^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 \\
& + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 \\
& + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + \\
& 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a \\
& ^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12} \\
& *d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12} \\
& ^12)/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16} \\
& *b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098 \\
& *(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(102
\end{aligned}$$

$$\begin{aligned}
& 9a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \\
&) + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6)^{(1/3)} + 6561 * (I * \sqrt{3} + 1) * (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6)^{(1/3)} + 162 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) * d^3 * \cos(dx + c) - 26244 * (31294634a^{23}b^6 + 3250929990a^{21}b^8 + 73171807478a^{19}b^{10} + 245222572301a^{17}b^{12} + 233351795684a^{15}b^{14} + 43340511440a^{13}b^{16} - 5121621985a^{11}b^{18} + 198326192a^9b^{20} - 3185326a^7b^{22} + 19656a^5b^{24} - 64a^3b^{26}) * d * \cos(dx + c) - 3 * \sqrt{1/3} * ((2401a^{37} + 48524a^{35}b^2 - 1682975a^{33}b^4 + 6603275a^{31}b^6 - 4665683a^{29}b^8 - 22089037a^{27}b^{10} + 59373627a^{25}b^{12} - 63314565a^{23}b^{14} + 29891400a^{21}b^{16} - 748909a^{19}b^{18} - 4864664a^{17}b^{20} + 1529774a^{15}b^{22} - 85010a^{13}b^{24} + 1850a^{11}b^{26} - 8a^9b^{28}) * ((-I * \sqrt{3} + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^2 + 15 * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))
\end{aligned}$$

$$\begin{aligned}
& *d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488* \\
& a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}* \\
& b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}* \\
& d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2 \\
& *d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 \\
& + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4 \\
& *d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 \\
& - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14} \\
& *b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 58824 \\
& 01*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14} \\
& *a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6 \\
& *b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + \\
& 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} \\
& + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 \\
& + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - \\
& 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12} \\
& *(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + \\
& 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6 \\
& *b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - \\
& 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 \\
& - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6* \\
& b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}* \\
& d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^5*c \\
& os(d*x + c) + 162*(1447803*a^{29}*b^4 - 2113034*a^{27}*b^6 - 24206406*a^{25}*b^8 \\
& + 106832600*a^{23}*b^{10} - 196587030*a^{21}*b^{12} + 192986604*a^{19}*b^{14} - 9861079 \\
& 2*a^{17}*b^{16} + 16488192*a^{15}*b^{18} + 6358275*a^{13}*b^{20} - 2792370*a^{11}*b^{22} + \\
& 202118*a^9*b^{24} - 6024*a^7*b^{26} + 64*a^5*b^{28})*d^3*cos(d*x + c))*sqrt((1620 \\
& 304560*a^{18}*b^6 + 93287972160*a^{16}*b^8 + 1710611738640*a^{14}*b^{10} + 74523031 \\
& 36992*a^{12}*b^{12} + 11309487743232*a^{10}*b^{14} + 5170525774092*a^8*b^{16} + 48428 \\
& 2579032*a^6*b^{18} - 75640115628*a^4*b^{20} + 4494809880*a^2*b^{22} - 90935460*b^{24} \\
& - (a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 - 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 200 \\
& 2*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a^{18}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}* \\
& b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} + 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28} \\
& 8)*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2
\end{aligned}$$

$$\begin{aligned}
& *b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 \\
& + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
&)/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 \\
& - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) \\
& - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
& *(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} \\
& + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 \\
& - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) \\
& - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
& *(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2*d^4 + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*
\end{aligned}$$

$$\begin{aligned}
& b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 6561(I*\sqrt{3} + 1)*(-1/531441(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2)/((a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 14a^6b^{26} + a^4b^{28})*d^4))*\sqrt{-(573480a^8b^4 + 4293324a^6b^6 + 3847662a^4b^8 + 159894a^2b^{10} - 17010b^{12} - (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 -
\end{aligned}$$

$$\begin{aligned}
& 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}) * ((-I\sqrt{3} + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))) + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6))^{(1/3)} + 6561 * (I\sqrt{3} + 1) * (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))) + 1/1062882 * (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6))^{(1/3)} + 162 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) * d^2 - 3 * \sqrt{1/3} * (a^{16} - 7a^{14}b^2 + 21a^{12}b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}) * d^2 * \sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 1710611738640 *
\end{aligned}$$

$$\begin{aligned}
& a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525774 \\
& 092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880a^2 \\
& b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 + \\
& 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003a^{16} \\
& b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} - 1 \\
& 4a^6b^{26} + a^4b^{28}) * ((-I\sqrt{3}) + 1) * ((1180a^8b^4 + 8834a^6b^6 + 79 \\
& 17a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12} \\
& b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 \\
& d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d \\
& ^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - \\
& 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441*(1180a^8b^4 \\
& + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14} \\
& b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10} \\
& d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 548 \\
& 8a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18} \\
& b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14} \\
& d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} \\
& 0 - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b \\
& ^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10} \\
& d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4 \\
& d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 \\
& 2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821* \\
& a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 588 \\
& 2401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2) \\
& ^{14}a^{10}d^6))^{(1/3)} + 6561*(I\sqrt{3}) + 1) * (-1/531441*(1180a^8b^4 + 8834 \\
& a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2* \\
& d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b \\
& ^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 \\
& + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) \\
& - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35* \\
& b^{12}) * (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 \\
& + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7 \\
& a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2 \\
& b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 \\
& - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6 \\
& b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14}a^{10} \\
& d^6))^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b
\end{aligned}$$

$$\begin{aligned}
& \frac{a^{10} - 35b^{12}}{(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 d^4} \\
& + 324 \cdot (1180a^{24}b^4 + 574a^{22}b^6 - 29141a^{20}b^8 + 89124a^{18}b^{10} - 103971a^{16}b^{12} + 14469a^{14}b^{14} + 87591a^{12}b^{16} - 92859a^{10}b^{18} + 38451a^8b^{20} - 4879a^6b^{22} - 574a^4b^{24} + 35a^2b^{26}) \cdot ((-I\sqrt{3}) + 1) \\
& \cdot ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 \cdot (1029a^4b^6 - 3173a^2b^8 + 119b^{10})) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
& / (-1/531441 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 \cdot (117649a^4b^8 - 5488a^2b^{10} + 64b^{12})) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \cdot (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \cdot (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 \cdot (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) \cdot b^8 / ((a^2 - b^2)^{14}a^{10}d^6)^{1/3} + 6561 \cdot (I\sqrt{3} + 1) \cdot (-1/531441 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882 \cdot (117649a^4b^8 - 5488a^2b^{10} + 64b^{12})) / (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) \cdot (1029a^4b^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \cdot (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 \cdot (117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18}) \cdot b^8 / ((a^2 - b^2)^{14}a^{10}d^6)^{1/3} + 162 \cdot (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)
\end{aligned}$$

$$\begin{aligned}
& d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 \\
& + 7a^4b^{12}d^2 - a^2b^{14}d^2) * d^2) / ((a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - \\
& 364a^{26}b^6 + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18} \\
& * b^{14} + 3003a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + \\
& 91a^8b^{24} - 14a^6b^{26} + a^4b^{28}) * d^4) / ((a^{16} - 7a^{14}b^2 + 21a^{12}b^4 \\
& b^4 - 35a^{10}b^6 + 35a^8b^8 - 21a^6b^{10} + 7a^4b^{12} - a^2b^{14}) * d^2)) \\
& + 1/4374 * \text{sqrt}(1/3) * ((108045a^{33}b^2 + 1246000a^{31}b^4 - 8252545a^{29}b^6 \\
& + 14362502a^{27}b^8 + 3119725a^{25}b^{10} - 42348705a^{23}b^{12} + 60187305a^{21} \\
& b^{14} - 37763145a^{19}b^{16} + 8526966a^{17}b^{18} + 1772925a^{15}b^{20} - 1034 \\
& 740a^{13}b^{22} + 78295a^{11}b^{24} - 2660a^9b^{26} + 32a^7b^{28}) * ((-I * \text{sqrt}(3) \\
& + 1) * ((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12} \\
&)^2 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8 \\
& b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15 * (1029a^4 \\
& b^6 - 3173a^2b^8 + 119b^{10}) / (a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 \\
& ^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - \\
& a^4b^{14}d^4)) / (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 32 \\
& 9a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a \\
& ^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \\
& ^3 - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7 \\
& * a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14} \\
& b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8 \\
& 834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2 \\
& b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6 \\
& d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
&) * (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8 \\
& d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882 * (117 \\
& 649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 892 \\
& 40711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5 \\
& 936a^2b^{16} + 64b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10}d^6))^{1/3} + 6561 * (I * \text{sqrt} \\
& (3) + 1) * (-1/531441 * (1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} \\
& - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6 \\
& d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 \\
& - 1/1062882 * (117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 - 7a^{22}b^2 \\
& ^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10} \\
& d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 * (1180a^8b^4 + 8834a^6 \\
& b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) * (1029a^4b^6 - 3173a^2b^8 \\
& + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 \\
& + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) * (a^{16} \\
& d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2
\end{aligned}$$

$$\begin{aligned}
 & - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{11} \\
 & 8 - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a \\
 & ^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2 \\
 & *b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1180a^8b^4 + \\
 & 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b \\
 & ^2*d^2 + 21a^{12}b^4*d^2 - 35a^{10}b^6*d^2 + 35a^8b^8*d^2 - 21a^6b^{10}*d \\
 & ^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^4*\sin(dx + c) + 1134*(117649a^{27}b \\
 & ^4 - 3728410a^{25}b^6 + 23116945a^{23}b^8 - 67318215a^{21}b^{10} + 112433355* \\
 & a^{19}b^{12} - 115334583a^{17}b^{14} + 73197495a^{15}b^{16} - 27454245a^{13}b^{18} + \\
 & 5360040a^{11}b^{20} - 403555a^9b^{22} + 13684a^7b^{24} - 160a^5b^{26})*d^2*s \\
 & \sin(dx + c))*\sqrt{((1620304560a^{18}b^6 + 93287972160a^{16}b^8 + 17106117386 \\
 & 40a^{14}b^{10} + 7452303136992a^{12}b^{12} + 11309487743232a^{10}b^{14} + 5170525 \\
 & 774092a^8b^{16} + 484282579032a^6b^{18} - 75640115628a^4b^{20} + 4494809880 \\
 & *a^2b^{22} - 90935460b^{24} - (a^{32} - 14a^{30}b^2 + 91a^{28}b^4 - 364a^{26}b^6 \\
 & + 1001a^{24}b^8 - 2002a^{22}b^{10} + 3003a^{20}b^{12} - 3432a^{18}b^{14} + 3003 \\
 & *a^{16}b^{16} - 2002a^{14}b^{18} + 1001a^{12}b^{20} - 364a^{10}b^{22} + 91a^8b^{24} \\
 & - 14a^6b^{26} + a^4b^{28})*((-I*\sqrt{3}) + 1)*((1180a^8b^4 + 8834a^6b^6 + \\
 & 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2*d^2 + 21a \\
 & ^{12}b^4*d^2 - 35a^{10}b^6*d^2 + 35a^8b^8*d^2 - 21a^6b^{10}*d^2 + 7a^4b^{12} \\
 & ^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18} \\
 & d^4 - 7a^{16}b^2*d^4 + 21a^{14}b^4*d^4 - 35a^{12}b^6*d^4 + 35a^{10}b^8*d^4 \\
 & - 21a^8b^{10}*d^4 + 7a^6b^{12}*d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8* \\
 & b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7 \\
 & *a^{14}b^2*d^2 + 21a^{12}b^4*d^2 - 35a^{10}b^6*d^2 + 35a^8b^8*d^2 - 21a^6 \\
 & *b^{10}*d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - \\
 & 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2*d^6 + 21a^{20}b^4*d^6 - 35* \\
 & a^{18}b^6*d^6 + 35a^{16}b^8*d^6 - 21a^{14}b^{10}*d^6 + 7a^{12}b^{12}d^6 - a^{10} \\
 & b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2* \\
 & b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16} \\
 & b^2*d^4 + 21a^{14}b^4*d^4 - 35a^{12}b^6*d^4 + 35a^{10}b^8*d^4 - 21a^8b^{10} \\
 & ^2*d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2*d^2 + 21a^{12} \\
 & b^4*d^2 - 35a^{10}b^6*d^2 + 35a^8b^8*d^2 - 21a^6b^{10}*d^2 + 7a^4b^{12} \\
 & *d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 3882578 \\
 & 21a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - \\
 & 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b \\
 & ^2)^{14}a^{10}d^6))^{(1/3)} + 6561*(I*\sqrt{3}) + 1)*(-1/531441*(1180a^8b^4 + 8 \\
 & 834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b \\
 & ^2*d^2 + 21a^{12}b^4*d^2 - 35a^{10}b^6*d^2 + 35a^8b^8*d^2 - 21a^6b^{10}*d \\
 & ^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))^3 - 1/1062882*(117649a^4b^8 - 5488a^
 \end{aligned}$$

$$\begin{aligned}
& 2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8 / ((a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^{2*d^4} + 324*(1180*a^{24}*b^4 + 574*a^{22}*b^6 - 29141*a^{20}*b^8 + 89124*a^{18}*b^{10} - 103971*a^{16}*b^{12} + 14469*a^{14}*b^{14} + 87591*a^{12}*b^{16} - 92859*a^{10}*b^{18} + 38451*a^8*b^{20} - 4879*a^6*b^{22} - 574*a^4*b^{24} + 35*a^2*b^{26})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}))^2 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / (a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)) / (-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}))^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8 / ((a^2 - b^2)^{14}*a^{10}*d^6)^{1/3} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}))^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6)
\end{aligned}$$

$$\begin{aligned}
&^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10} \\
&*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6 \\
&*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 \\
&+ 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
&+ 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16} \\
&*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
&- 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} \\
&- 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a \\
&^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2 \\
&*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{(1/3)} + 162*(1180*a^8*b^4 + \\
&8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b \\
&^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d \\
&^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2)/((a^{32} - 14*a^{30}*b^2 + 91*a^{28}*b^4 \\
&- 364*a^{26}*b^6 + 1001*a^{24}*b^8 - 2002*a^{22}*b^{10} + 3003*a^{20}*b^{12} - 3432*a \\
&^{18}*b^{14} + 3003*a^{16}*b^{16} - 2002*a^{14}*b^{18} + 1001*a^{12}*b^{20} - 364*a^{10}*b^{22} \\
&+ 91*a^8*b^{24} - 14*a^6*b^{26} + a^4*b^{28})*d^4)) + 2*(2363568410*a^{19}*b^8 + 6 \\
&8245683058*a^{17}*b^{10} + 88199223245*a^{15}*b^{12} - 166764852730*a^{13}*b^{14} - 523 \\
&64240705*a^{11}*b^{16} + 7090272980*a^9*b^{18} - 352540783*a^7*b^{20} + 8295940*a^5 \\
&*b^{22} - 75040*a^3*b^{24})*sin(d*x + c)) + 108*(2*a^5*b + a^3*b^3 - 3*a*b^5)*c \\
&os(d*x + c)^2 + 54*((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d*cos(d*x + c)^3 - ((a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^5 - (a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^3)*sin(d*x + c))*sqrt(-1/13122*(-I*sqrt(3) + 1))*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}
\end{aligned}$$

$$\begin{aligned}
& 2*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{(1/3)} - 1 \\
& /2*(I*\sqrt{3} + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 3 \\
& 5*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 \\
& - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21 \\
& *a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 317 \\
& 3*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}* \\
& d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(\\
& 117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - \\
& 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} \\
& - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)^{(1/3)} - 1/81*(118 \\
& 0*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 \\
& - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21 \\
& *a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*\log(80707214*a^{20}*b^7 - 597 \\
& 0686750*a^{18}*b^9 - 266205651110*a^{16}*b^{11} - 620471626740*a^{14}*b^{13} - 466025 \\
& 97090*a^{12}*b^{15} + 45564915760*a^{10}*b^{17} - 5064762990*a^8*b^{19} + 271850040*a^6*b^{21} - 8217440*a^4*b^{23} + 138880*a^2*b^{25} - 1024*b^{27} - 1/13122*(108045* \\
& a^{33}*b^2 + 1246000*a^{31}*b^4 - 8252545*a^{29}*b^6 + 14362502*a^{27}*b^8 + 311972 \\
& 5*a^{25}*b^{10} - 42348705*a^{23}*b^{12} + 60187305*a^{21}*b^{14} - 37763145*a^{19}*b^{16} \\
& + 8526966*a^{17}*b^{18} + 1772925*a^{15}*b^{20} - 1034740*a^{13}*b^{22} + 78295*a^{11}*b^{24} \\
& - 2660*a^9*b^{26} + 32*a^7*b^{28})*((-I*\sqrt{3} + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/ \\
& (a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1 \\
& 180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16} \\
& *d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 \\
& - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 \\
& - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 \\
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 2
\end{aligned}$$

$$\begin{aligned}
& 1*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7* \\
& a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - \\
& 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8 \\
& *b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/(\\
& (a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8 \\
& *b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6 \\
& *b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 - \\
& 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35 \\
& *a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10} \\
& *b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2 \\
& *b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^ \\
& 16*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b \\
& ^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^ \\
& 12*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^ \\
& 12*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257 \\
& 821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - \\
& 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - \\
& b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 \\
& + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35 \\
& *a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^ \\
& 14*d^2))^2*d^4*\sin(d*x + c) + 1/81*(823543*a^{27}*b^4 + 356380430*a^{25}*b^6 + 1 \\
& 0113422305*a^{23}*b^8 + 67531592520*a^{21}*b^{10} + 143044567575*a^{19}*b^{12} + 9874 \\
& 6645158*a^{17}*b^{14} + 15418943610*a^{15}*b^{16} - 1382094090*a^{13}*b^{18} - 23892960 \\
& *a^{11}*b^{20} + 5179370*a^9*b^{22} - 191576*a^7*b^{24} + 2240*a^5*b^{26})*((-I*sqrt(\\
& 3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^ \\
& 12)^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a \\
& ^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029* \\
& a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4 \\
& *d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 \\
& - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + \\
& 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35 \\
& *a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^ \\
& 14*d^2))^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - \\
& 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21* \\
& a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + \\
& 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173 \\
& *a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^1
\end{aligned}$$

$$\begin{aligned}
& 2*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4 \\
& *(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 \\
& - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(1 \\
& 17649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 8 \\
& 9240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - \\
& 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sq \\
& rt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} \\
& *b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 \\
& - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 \\
& + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 \\
& - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 \\
& + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} \\
& - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 \\
& + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 \\
& + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^2*\sin(dx + c) + 2*(2363568410*a^{19}*b^8 \\
& + 68245683058*a^{17}*b^{10} + 88199223245*a^{15}*b^{12} - 166764852730*a^{13}*b^{14} - 52364240705*a^{11}*b^{16} \\
& + 7090272980*a^9*b^{18} - 352540783*a^7*b^{20} + 8295940*a^5*b^{22} - 75040*a^3*b^{24})*\sin(dx + c) + 1/1458*((2401*a^{37} + 48524*a^{35}*b^2 \\
& - 1682975*a^{33}*b^4 + 6603275*a^{31}*b^6 - 4665683*a^{29}*b^8 - 22089037*a^{27}*b^{10} + 59373627*a^{25}*b^{12} \\
& - 63314565*a^{23}*b^{14} + 29891400*a^{21}*b^{16} - 748909*a^{19}*b^{18} - 4864664*a^{17}*b^{20} + 1529774*a^{15}*b^{22} \\
& - 85010*a^{13}*b^{24} + 1850*a^{11}*b^{26} - 8*a^9*b^{28})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 \\
& - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^2 + 15*(1029*a^4*b^6 \\
& - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 \\
& - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))^3 - 1/1062882*(117649*a^4*b^8 \\
& - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6
\end{aligned}$$

$$\begin{aligned}
& 6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 \\
& - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 \\
& - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 \\
& - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{1/3} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 \\
& + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 \\
& - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) \\
& - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 \\
& + 7a^6b^{12}d^4 - a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 \\
& - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{1/3} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 * d^5 * \cos(dx + c) - 162*(9947343a^{29}b^4 + 292790008a^{27}b^6 - 2753097753a^{25}b^8 - 44962633450a^{23}b^{10} - 129793230435a^{21}b^{12} - 112855972122a^{19}b^{14} - 25039968999a^{17}b^{16} + 1092578394a^{15}b^{18} + 138817665a^{13}b^{20} - 11962860a^{11}b^{22} + 398384a^9b^{24} - 6864a^7b^{26} + 64a^5b^{28})*((-I*\sqrt{3} + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6)
\end{aligned}$$

$$\begin{aligned}
& ^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098 \\
& *(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
& *(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2) \\
&) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12})/(a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
& *(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8/((a^2 - b^2)^{14}a^{10}d^6)^{(1/3)} + 162*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^3*\cos(dx + c) - 26244*(95530988a^{23}b^6 - 1505751135a^{21}b^8 - 138373217857a^{19}b^{10} - 233765387464a^{17}b^{12} + 231216558944a^{15}b^{14} + 83021287925a^{13}b^{16} - 11614739875a^{11}b^{18} + 639788507a^9b^{20} - 19639666a^7b^{22} + 357336a^5b^{24} - 3328a^3b^{26})*d*\cos(dx + c))*\sqrt{-1/13122*(-I*\sqrt{3} + 1)*((1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^2 + 15*(1029a^4b^6 - 3173a^2b^8 + 119b^{10})/(a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4))/(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^3/(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)^3 - 1/106
\end{aligned}$$

$$\begin{aligned}
& 2882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 \\
& + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + \\
& 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + \\
& 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b \\
& ^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a \\
& ^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - \\
& 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^ \\
& 6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 870 \\
& 0881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 \\
& + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + \\
& 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} - 1/2*(I*sqrt(3) + 1)*(-1/53 \\
& 1441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^ \\
& 3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b \\
& ^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(11 \\
& 7649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^2 \\
& 0*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b \\
& ^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4 \\
& *b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a \\
& ^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8* \\
& d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b \\
& ^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d \\
& ^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^1 \\
& 6*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339 \\
& 744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18} \\
&)*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} - 1/81*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^ \\
& 12*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^1 \\
& 2*d^2 - a^2*b^{14}*d^2)) - 54*((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6)*d*cos \\
& (d*x + c)^3 - ((a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^5 - (\\
& a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*cos(d*x + c)^3)*sin(d*x + c))*sqrt \\
& (-1/13122*(-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 3 \\
& 29*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35* \\
& a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^ \\
& 2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d \\
& ^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^ \\
& 6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 2 \\
& 1*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4 \\
& *b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 6
\end{aligned}$$

$$\begin{aligned}
& 4*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35 \\
& *a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118 \\
& 098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(\\
& 1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14} \\
& *b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12} \\
& *d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10} \\
& *b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2) \\
& + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913 \\
& 533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6)) \\
& ^{(1/3) - 1/2*(I*\sqrt{3} + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917 \\
& *a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4 \\
& *d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 \\
& - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/ \\
& (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8 \\
& *d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(118 \\
& 0*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4 \\
& *b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 \\
& - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - \\
& a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 \\
& + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1 \\
& /1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a \\
& ^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084 \\
& *a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3) - \\
& 1/81*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) \\
& /((a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8 \\
& *d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*\log(-80707214*a^{20} \\
& *b^7 + 5970686750*a^{18}*b^9 + 266205651110*a^{16}*b^{11} + 620471626740*a^{14}*b^{13} \\
& + 46602597090*a^{12}*b^{15} - 45564915760*a^{10}*b^{17} + 5064762990*a^8*b^{19} - \\
& 271850040*a^6*b^{21} + 8217440*a^4*b^{23} - 138880*a^2*b^{25} + 1024*b^{27} + 1/131 \\
& 22*(108045*a^{33}*b^2 + 1246000*a^{31}*b^4 - 8252545*a^{29}*b^6 + 14362502*a^{27}*b^8 \\
& + 3119725*a^{25}*b^{10} - 42348705*a^{23}*b^{12} + 60187305*a^{21}*b^{14} - 37763145 \\
& *a^{19}*b^{16} + 8526966*a^{17}*b^{18} + 1772925*a^{15}*b^{20} - 1034740*a^{13}*b^{22} + 78 \\
& 295*a^{11}*b^{24} - 2660*a^9*b^{26} + 32*a^7*b^{28})*((-I*\sqrt{3} + 1)*((1180*a^8*b^4 \\
& + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7* \\
& a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6* \\
& b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 \\
& + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 \\
& + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-
\end{aligned}$$

$$\begin{aligned}
& 1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882 \\
& *(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917 \\
& *a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881 \\
& *a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6))^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2*d^4*sin(d*x + c) - 1/81*(823543*a^{27}*b^4 + 356380430*a^{25}*b^6 + 10113422305*a^{23}*b^8 + 67531592520*a^{21}*b^{10} + 143044567575*a^{19}*b^{12} + 98746645158*a^{17}*b^{14} + 15418943610*a^{15}*b^{16} - 1382094090*a^{13}*b^{18} - 23892960*a^{11}*b^{20} + 5179370*a^9*b^{22} - 191576*a^7*b^{24} + 2240*a^5*b^{26})*((-I*sqrt(3) + 1)*((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a
\end{aligned}$$

$$\begin{aligned}
& ^6b^{12}d^4 - a^4b^{14}d^4)) / (-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917 \\
& *a^4b^8 + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& ^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 \\
& ^2 - a^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / \\
& (a^{24}d^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 \\
& ^8d^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(118 \\
& 0a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - \\
& ^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 \\
& ^4 - 35a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - \\
& ^4a^4b^{14}d^4)*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 \\
& ^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1 \\
& /1062882*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a \\
& ^{12}b^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084 \\
& ^4a^4b^{14} - 5936a^2b^{16} + 64b^{18})*b^8 / ((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + \\
& 6561*(I*\sqrt{3} + 1)*(-1/531441*(1180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 \\
& + 329a^2b^{10} - 35b^{12})^3 / (a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 \\
& - 35a^{10}b^6d^2 + 35a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2 \\
& ^2b^{14}d^2)^3 - 1/1062882*(117649a^4b^8 - 5488a^2b^{10} + 64b^{12}) / (a^{24}d^6 \\
& ^6 - 7a^{22}b^2d^6 + 21a^{20}b^4d^6 - 35a^{18}b^6d^6 + 35a^{16}b^8d^6 - \\
& ^6 - 21a^{14}b^{10}d^6 + 7a^{12}b^{12}d^6 - a^{10}b^{14}d^6) - 5/118098*(1180a^8b^4 \\
& ^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})*(1029a^4b^6 - \\
& ^6 - 3173a^2b^8 + 119b^{10}) / ((a^{18}d^4 - 7a^{16}b^2d^4 + 21a^{14}b^4d^4 - 35 \\
& ^4a^{12}b^6d^4 + 35a^{10}b^8d^4 - 21a^8b^{10}d^4 + 7a^6b^{12}d^4 - a^4b^{14}d^4) \\
& ^4*(a^{16}d^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35 \\
& ^6a^8b^8d^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2)) + 1/106288 \\
& ^2*(117649a^{18} - 8700881a^{16}b^2 - 388257821a^{14}b^4 - 913533166a^{12}b^6 \\
& ^6 - 89240711a^{10}b^8 + 64339744a^8b^{10} - 5882401a^6b^{12} + 259084a^4b^{14} \\
& ^4 - 5936a^2b^{16} + 64b^{18})*b^8 / ((a^2 - b^2)^{14}a^{10}d^6))^{(1/3)} + 162*(1 \\
& ^6180a^8b^4 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12}) / (a^{16}d^2 \\
& ^2 - 7a^{14}b^2d^2 + 21a^{12}b^4d^2 - 35a^{10}b^6d^2 + 35a^8b^8d^2 - \\
& ^2 - 21a^6b^{10}d^2 + 7a^4b^{12}d^2 - a^2b^{14}d^2))*d^2*\sin(dx + c) - 2*(236 \\
& ^63568410a^{19}b^8 + 68245683058a^{17}b^{10} + 88199223245a^{15}b^{12} - 16676485 \\
& ^62730a^{13}b^{14} - 52364240705a^{11}b^{16} + 7090272980a^9b^{18} - 352540783a^7b^{20} \\
& ^6 + 8295940a^5b^{22} - 75040a^3b^{24})*\sin(dx + c) + 1/1458*((2401a^7 \\
& ^637 + 48524a^{35}b^2 - 1682975a^{33}b^4 + 6603275a^{31}b^6 - 4665683a^{29}b^8 \\
& ^6 - 22089037a^{27}b^{10} + 59373627a^{25}b^{12} - 63314565a^{23}b^{14} + 29891400 \\
& ^6a^{21}b^{16} - 748909a^{19}b^{18} - 4864664a^{17}b^{20} + 1529774a^{15}b^{22} - 850 \\
& ^610a^{13}b^{24} + 1850a^{11}b^{26} - 8a^9b^{28})*((-I*\sqrt{3} + 1)*((1180a^8b^4 \\
& ^64 + 8834a^6b^6 + 7917a^4b^8 + 329a^2b^{10} - 35b^{12})^2 / (a^{16}d^2 - 7a
\end{aligned}$$

$$\begin{aligned}
& *b^8 + 329*a^2*b^{10} - 35*b^{12})^2/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 \\
& ^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - \\
& a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/(a^{18}*d^4 - 7 \\
& *a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8 \\
& *b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4))/(-1/531441*(1180*a^8*b^4 + 883 \\
& 4*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2 \\
& *d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 \\
& + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2* \\
& b^{10} + 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6* \\
& d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) \\
& - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35 \\
& *b^{12})*(1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 \\
& + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + \\
& 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 \\
& - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2 \\
& *b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 \\
& - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6) \\
&)^{(1/3)} + 6561*(I*sqrt(3) + 1)*(-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 \\
& + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + \\
& 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4 \\
& *b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + \\
& 64*b^{12})/(a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 3 \\
& 5*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/11 \\
& 8098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})* \\
& (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10})/((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14} \\
& *b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12} \\
& *d^4 - a^4*b^{14}*d^4)*(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10} \\
& *b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14} \\
& *d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 91 \\
& 3533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} \\
& + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18})*b^8/((a^2 - b^2)^{14}*a^{10}*d^6) \\
&)^{(1/3)} + 162*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - \\
& 35*b^{12})/(a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 3 \\
& 5*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2))*d^3*cos(\\
& *x + c) - 26244*(95530988*a^{23}*b^6 - 1505751135*a^{21}*b^8 - 138373217857*a^{19} \\
& *b^{10} - 233765387464*a^{17}*b^{12} + 231216558944*a^{15}*b^{14} + 83021287925*a^{13} \\
& *b^{16} - 11614739875*a^{11}*b^{18} + 639788507*a^9*b^{20} - 19639666*a^7*b^{22} + 35 \\
& 7336*a^5*b^{24} - 3328*a^3*b^{26})*d*cos(d*x + c))*sqrt(-1/13122*(-I*sqrt(3) +
\end{aligned}$$

$$\begin{aligned}
& 1) * ((1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^2 \\
& / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^2 + 15*(1029*a^4*b^6 \\
& - 3173*a^2*b^8 + 119*b^{10}) / (a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) \\
&) / (-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2) \\
&)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) * (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) * (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6)^{(1/3)} - 1/2*(I*sqrt(3) + 1) * (-1/531441*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12})^3 / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)^3 - 1/1062882*(117649*a^4*b^8 - 5488*a^2*b^{10} + 64*b^{12}) / (a^{24}*d^6 - 7*a^{22}*b^2*d^6 + 21*a^{20}*b^4*d^6 - 35*a^{18}*b^6*d^6 + 35*a^{16}*b^8*d^6 - 21*a^{14}*b^{10}*d^6 + 7*a^{12}*b^{12}*d^6 - a^{10}*b^{14}*d^6) - 5/118098*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) * (1029*a^4*b^6 - 3173*a^2*b^8 + 119*b^{10}) / ((a^{18}*d^4 - 7*a^{16}*b^2*d^4 + 21*a^{14}*b^4*d^4 - 35*a^{12}*b^6*d^4 + 35*a^{10}*b^8*d^4 - 21*a^8*b^{10}*d^4 + 7*a^6*b^{12}*d^4 - a^4*b^{14}*d^4) * (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 1/1062882*(117649*a^{18} - 8700881*a^{16}*b^2 - 388257821*a^{14}*b^4 - 913533166*a^{12}*b^6 - 89240711*a^{10}*b^8 + 64339744*a^8*b^{10} - 5882401*a^6*b^{12} + 259084*a^4*b^{14} - 5936*a^2*b^{16} + 64*b^{18}) * b^8 / ((a^2 - b^2)^{14} * a^{10} * d^6)^{(1/3)} - 1/81*(1180*a^8*b^4 + 8834*a^6*b^6 + 7917*a^4*b^8 + 329*a^2*b^{10} - 35*b^{12}) / (a^{16}*d^2 - 7*a^{14}*b^2*d^2 + 21*a^{12}*b^4*d^2 - 35*a^{10}*b^6*d^2 + 35*a^8*b^8*d^2 - 21*a^6*b^{10}*d^2 + 7*a^4*b^{12}*d^2 - a^2*b^{14}*d^2)) + 36*(a^6 - 2*a^4*b^2 + a^2*b^4 - (7*a^4*b^2 + 37*a^2*b^4 + b^6) * cos(d*x + c)^4 + (2*a^6 - 19*a^4*b^2 + 17*a^2*b^4) * cos(d*x + c)^2 * sin(d*x + c)) / ((a^8 - 3*a^6*b^2 + 3*a^4*b^4 - a^2*b^6) * d * cos(d*x + c)^3 - ((a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7) * d * cos(d*x + c)^5 -
\end{aligned}$$

$$(a^7*b - 3*a^5*b^3 + 3*a^3*b^5 - a*b^7)*d*\cos(dx + c)^3*\sin(dx + c))$$

Mupad

Integral number [332]

$$\int \frac{\cos^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 37.1263 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] int(cos(c + d*x)^4/(a + b*sin(c + d*x)^3)^2,x)

[Out]

```
2/(3*d*(a*b + 8*b^2*tan(c/2 + (d*x)/2)^3 + 3*a*b*tan(c/2 + (d*x)/2)^2 + 3*a
*b*tan(c/2 + (d*x)/2)^4 + a*b*tan(c/2 + (d*x)/2)^6)) + symsum(log((638976*a
^2*b^4 - 655360*b^6 - 8192*a^6 + 24576*a^4*b^2 - 2949120*root(531441*a^10*b
^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a
^6 - 64*b^6, d, k)*a^3*b^5 + 2138112*root(531441*a^10*b^8*d^6 + 59049*a^8*b
^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)*a
^5*b^3 - 9437184*root(531441*a^10*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^
4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)*b^8*tan(c/2 + (d*x)/2
) - 786432*a*b^5*tan(c/2 + (d*x)/2) + 98304*a^5*b*tan(c/2 + (d*x)/2) - 2123
3664*root(531441*a^10*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a
^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^2*a^2*b^8 + 18579456*root(531441*
a^10*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b
^2 + a^6 - 64*b^6, d, k)^2*a^4*b^6 + 2654208*root(531441*a^10*b^8*d^6 + 590
49*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6,
d, k)^2*a^6*b^4 - 167215104*root(531441*a^10*b^8*d^6 + 59049*a^8*b^6*d^4 +
2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^3*a^5*b^7
+ 113467392*root(531441*a^10*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^
2 + 48*a^2*b^4 + 15*a^4*b^2 + a^6 - 64*b^6, d, k)^3*a^7*b^5 - 107495424*roo
t(531441*a^10*b^8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 +
15*a^4*b^2 + a^6 - 64*b^6, d, k)^4*a^6*b^8 + 107495424*root(531441*a^10*b^
8*d^6 + 59049*a^8*b^6*d^4 + 2187*a^6*b^4*d^2 + 48*a^2*b^4 + 15*a^4*b^2 + a^
6 - 64*b^6, d, k)^4*a^8*b^6 - 1934917632*root(531441*a^10*b^8*d^6 + 59049*a
```

$$\begin{aligned}
& ^8b^6d^4 + 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, \\
& k)^5a^7b^9 + 1451188224\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 21 \\
& 87a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^5a^9b^7 + \\
& 688128a^3b^3\tan(c/2 + (d*x)/2) - 1179648\text{root}(531441a^{10}b^8d^6 + 5904 \\
& 9a^8b^6d^4 + 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, \\
& d, k)*a*b^7 + 12976128\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187* \\
& a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)*a^2b^6\tan(c/2 \\
& + (d*x)/2) - 6266880\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187*a \\
& ^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)*a^4b^4\tan(c/2 \\
& + (d*x)/2) + 737280\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187*a^6 \\
& *b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)*a^6b^2\tan(c/2 + \\
& (d*x)/2) - 53084160\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187*a^6 \\
& *b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^2a^3b^7\tan(c/2 \\
& + (d*x)/2) + 50429952\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187*a \\
& ^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^2a^5b^5\tan(c/ \\
& 2 + (d*x)/2) + 2654208\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 2187* \\
& a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^2a^7b^3\tan(c \\
& /2 + (d*x)/2) - 59719680\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 218 \\
& 7a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^3a^6b^6\tan \\
& (c/2 + (d*x)/2) + 5971968\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + 21 \\
& 87a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^3a^8b^4\tan \\
& n(c/2 + (d*x)/2) - 859963392\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^4 + \\
& 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^4a^5b^9 \\
& *tan(c/2 + (d*x)/2) + 859963392\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6d^ \\
& 4 + 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^4a^7* \\
& b^7\tan(c/2 + (d*x)/2) - 483729408\text{root}(531441a^{10}b^8d^6 + 59049a^8b^6 \\
& *d^4 + 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k)^5a \\
& ^8b^8\tan(c/2 + (d*x)/2))/(a^3b^4))*\text{root}(531441a^{10}b^8d^6 + 59049a^8* \\
& b^6d^4 + 2187a^6b^4d^2 + 48a^2b^4 + 15a^4b^2 + a^6 - 64b^6, d, k), \\
& k, 1, 6)/d + (8*\tan(c/2 + (d*x)/2)^3)/(3*d*(3*a^2*\tan(c/2 + (d*x)/2)^2 + 3 \\
& *a^2*\tan(c/2 + (d*x)/2)^4 + a^2*\tan(c/2 + (d*x)/2)^6 + a^2 + 8*a*b*\tan(c/2 \\
& + (d*x)/2)^3) - (2*\tan(c/2 + (d*x)/2)^5)/(3*d*(3*a^2*\tan(c/2 + (d*x)/2)^2 \\
& + 3*a^2*\tan(c/2 + (d*x)/2)^4 + a^2*\tan(c/2 + (d*x)/2)^6 + a^2 + 8*a*b*\tan(c \\
& /2 + (d*x)/2)^3) + (4*\tan(c/2 + (d*x)/2)^2)/(3*d*(a*b + 8*b^2*\tan(c/2 + (d \\
& *x)/2)^3 + 3*a*b*\tan(c/2 + (d*x)/2)^2 + 3*a*b*\tan(c/2 + (d*x)/2)^4 + a*b*\tan \\
& n(c/2 + (d*x)/2)^6) + (2*\tan(c/2 + (d*x)/2)^4)/(3*d*(a*b + 8*b^2*\tan(c/2 + \\
& (d*x)/2)^3 + 3*a*b*\tan(c/2 + (d*x)/2)^2 + 3*a*b*\tan(c/2 + (d*x)/2)^4 + a*b \\
& *\tan(c/2 + (d*x)/2)^6) + (2*\tan(c/2 + (d*x)/2))/(3*d*(3*a^2*\tan(c/2 + (d*x) \\
& /2)^2 + 3*a^2*\tan(c/2 + (d*x)/2)^4 + a^2*\tan(c/2 + (d*x)/2)^6 + a^2 + 8*a*
\end{aligned}$$

$b*\tan(c/2 + (d*x)/2)^3)$

Integral number [333]

$$\int \frac{\cos^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 37.0521 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] `int(cos(c + d*x)^2/(a + b*sin(c + d*x)^3)^2,x)`

[Out]

```

symsum(log(-((131072*b^2)/243 - (16384*a^2)/243 + (8192*root(531441*a^12*b^
4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^
b^2 + a^4 + 64*b^4, d, k)*a^4*tan(c/2 + (d*x)/2))/27 + (1048576*root(531441
*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 -
16*a^2*b^2 + a^4 + 64*b^4, d, k)*b^4*tan(c/2 + (d*x)/2))/27 + (262144*root
(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^
2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^2*a^2*b^4)/3 - (131072*root(531441
*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 -
16*a^2*b^2 + a^4 + 64*b^4, d, k)^2*a^4*b^2)/3 - 98304*root(531441*a^12*b^4
*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b
^2 + a^4 + 64*b^4, d, k)^3*a^5*b^3 + 442368*root(531441*a^12*b^4*d^6 - 5314
41*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 +
64*b^4, d, k)^4*a^6*b^4 + 221184*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6
*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d,
k)^4*a^8*b^2 + 7962624*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 196
83*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^5*a^7*b
^5 - 5971968*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4
*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^5*a^9*b^3 + (1310
72*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729
*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)*a*b^3)/27 - (65536*root(531
441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^
2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)*a^3*b)/27 - (131072*root(531441*a^12*b
^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2
*b^2 + a^4 + 64*b^4, d, k)*a^2*b^2*tan(c/2 + (d*x)/2))/9 - (32768*root(5314

```

```

41*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2
- 16*a^2*b^2 + a^4 + 64*b^4, d, k)^2*a^5*b*tan(c/2 + (d*x)/2))/3 - (131072
*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a
^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^2*a^3*b^3*tan(c/2 + (d*x)/2))
/3 + 245760*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683*a^8*b^4*
d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^3*a^6*b^2*tan(c/2
+ (d*x)/2) + 3538944*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^6 + 19683
*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^4*a^5*b^5
*tan(c/2 + (d*x)/2) - 2654208*root(531441*a^12*b^4*d^6 - 531441*a^10*b^6*d^
6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^4, d, k)^
4*a^7*b^3*tan(c/2 + (d*x)/2) + 1990656*root(531441*a^12*b^4*d^6 - 531441*a^
10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 + 64*b^
4, d, k)^5*a^8*b^4*tan(c/2 + (d*x)/2))/a^3)*root(531441*a^12*b^4*d^6 - 5314
41*a^10*b^6*d^6 + 19683*a^8*b^4*d^4 + 729*a^6*b^2*d^2 - 16*a^2*b^2 + a^4 +
64*b^4, d, k), k, 1, 6)/d - (2*tan(c/2 + (d*x)/2)^5)/(3*d*(3*a^2*tan(c/2 +
(d*x)/2)^2 + 3*a^2*tan(c/2 + (d*x)/2)^4 + a^2*tan(c/2 + (d*x)/2)^6 + a^2 +
8*a*b*tan(c/2 + (d*x)/2)^3)) + (2*tan(c/2 + (d*x)/2))/(3*d*(3*a^2*tan(c/2 +
(d*x)/2)^2 + 3*a^2*tan(c/2 + (d*x)/2)^4 + a^2*tan(c/2 + (d*x)/2)^6 + a^2 +
8*a*b*tan(c/2 + (d*x)/2)^3))

```

Integral number [334]

$$\int \frac{1}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 38.991 (sec), size = -1 ,normalized size = -0.07

Too large to display

[In] int(1/(a + b*sin(c + d*x)^3)^2,x)

[Out]

```

symsum(log(- (8192*(80*b^6 - 270*a^2*b^4))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)
) - root(1594323*a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*b^6*d^6
- 531441*a^16*d^6 - 59049*a^10*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^12*d^
4 + 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k
)*((8192*(144*a*b^7 + 648*a^3*b^5 - 2187*a^5*b^3))/(243*(a^7 + a^3*b^4 - 2*
a^5*b^2)) - root(1594323*a^14*b^2*d^6 - 1594323*a^12*b^4*d^6 + 531441*a^10*

```

$b^6*d^6 - 531441*a^{16}*d^6 - 59049*a^{10}*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147$
 $*a^{12}*d^4 + 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4$
 $, d, k)*(root(1594323*a^{14}*b^2*d^6 - 1594323*a^{12}*b^4*d^6 + 531441*a^{10}*b^6*d^6$
 $- 531441*a^{16}*d^6 - 59049*a^{10}*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^{12}*d^4$
 $+ 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*((8192*(26973*a^7*b^5$
 $- 20412*a^5*b^7 + 39366*a^9*b^3))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) - root(1594323*a^{14}*b^2*d^6$
 $- 1594323*a^{12}*b^4*d^6 + 531441*a^{10}*b^6*d^6 - 531441*a^{16}*d^6 - 59049*a^{10}*b^2*d^4 + 59049*a^8*b^4$
 $*d^4 - 177147*a^{12}*d^4 + 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*(root(1594323*a^{14}*b^2*d^6$
 $- 1594323*a^{12}*b^4*d^6 + 531441*a^{10}*b^6*d^6 - 531441*a^{16}*d^6 - 59049*a^{10}*b^2*d^4 + 59049*a^8*b^4$
 $*d^4 - 177147*a^{12}*d^4 + 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k)*((8192*(236196*a^7*b^9$
 $- 649539*a^9*b^7 + 590490*a^{11}*b^5 - 177147*a^{13}*b^3))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) + (8192*tan(c/2$
 $+ (d*x)/2)*(6561*a^8*b^8 - 13122*a^{10}*b^6 + 6561*a^{12}*b^4))/(27*(a^7 + a^3*b^4 - 2*a^5*b^2))$
 $+ (8192*(13122*a^6*b^8 - 85293*a^8*b^6 + 72171*a^{10}*b^4))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) + (8192*tan(c/2 + (d*x)/2)*(11664*a^5*b^9$
 $- 40824*a^7*b^7 + 37908*a^9*b^5 - 8748*a^{11}*b^3))/(27*(a^7 + a^3*b^4 - 2*a^5*b^2)) + (8192*tan(c/2 + (d*x)/2)*(3078*a^6*b^6$
 $- 8181*a^8*b^4))/(27*(a^7 + a^3*b^4 - 2*a^5*b^2)) - (8192*(2592*a^2*b^8 - 11340*a^4*b^6 + 11664*a^6*b^4))/(243*(a^7 + a^3*b^4 - 2*a^5*b^2)) + (8192*tan(c/2 + (d*x)/2)*(12$
 $60*a^5*b^5 - 720*a^3*b^7 + 1944*a^7*b^3))/(27*(a^7 + a^3*b^4 - 2*a^5*b^2)) + (8192*tan(c/2 + (d*x)/2)*(128*b^8 - 688*a^2*b^6 + 1053*a^4*b^4))/(27*(a^7$
 $+ a^3*b^4 - 2*a^5*b^2)) - (8192*tan(c/2 + (d*x)/2)*(32*a*b^5 - 108*a^3*b^3))/(27*(a^7 + a^3*b^4 - 2*a^5*b^2))*root(1594323*a^{14}*b^2*d^6 - 1594323*a^{12}*b^4*d^6$
 $+ 531441*a^{10}*b^6*d^6 - 531441*a^{16}*d^6 - 59049*a^{10}*b^2*d^4 + 59049*a^8*b^4*d^4 - 177147*a^{12}*d^4 + 8019*a^6*b^2*d^2 - 19683*a^8*d^2 + 432*a^2*b^2 - 64*b^4 - 729*a^4, d, k), k, 1, 6)/d + ((2*b)/(3*(a^2 - b^2)) + (8*b*tan(c/2 + (d*x)/2)^2)/(3*(a^2 - b^2)) - (2*b*tan(c/2 + (d*x)/2)^4)/(3*(a^2 - b^2)) - (2*b^2*tan(c/2 + (d*x)/2))/(3*a*(a^2 - b^2)) + (8*b^2*tan(c/2 + (d*x)/2)^3)/(3*a*(a^2 - b^2)) + (2*b^2*tan(c/2 + (d*x)/2)^5)/(3*a*(a^2 - b^2)))/(d*(a + 3*a*tan(c/2 + (d*x)/2)^2 + 3*a*tan(c/2 + (d*x)/2)^4 + a*tan(c/2 + (d*x)/2)^6 + 8*b*tan(c/2 + (d*x)/2)^3))$

Integral number [335]

$$\int \frac{\sec^2(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 41.9021 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] $\text{int}(1/(\cos(c + d*x)^2*(a + b*\sin(c + d*x)^3)^2),x)$

[Out]

```

symsum(log(5479612416*a^8*b^36 - 180486144*a^6*b^38 - root(5314410*a^16*b^4
*d^6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^6 + 2657205*a^12*b^8*d^6 -
531441*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*a^12*b^4*d^4 + 2066715*a
^14*b^2*d^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^4*d^
2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k)*(tan(c
/2 + (d*x)/2)*(764411904*a^6*b^40 - 27805483008*a^8*b^38 + 437297356800*a^1
0*b^36 - 3672461721600*a^12*b^34 + 19250011791360*a^14*b^32 - 6915063575347
2*a^16*b^30 + 180165872001024*a^18*b^28 - 352655758540800*a^20*b^26 + 52992
3028377600*a^22*b^24 - 618699706859520*a^24*b^22 + 563713761042432*a^26*b^2
0 - 399760062234624*a^28*b^18 + 218398602240000*a^30*b^16 - 90108039168000*
a^32*b^14 + 27130620764160*a^34*b^12 - 5617221156864*a^36*b^10 + 7135367086
08*a^38*b^8 - 41803776000*a^40*b^6) - root(5314410*a^16*b^4*d^6 - 5314410*a
^14*b^6*d^6 - 2657205*a^18*b^2*d^6 + 2657205*a^12*b^8*d^6 - 531441*a^10*b^1
0*d^6 + 531441*a^20*d^6 + 11514555*a^12*b^4*d^4 + 2066715*a^14*b^2*d^4 + 10
62882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^4*d^2 - 98415*a^6*b^
6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k)*(root(5314410*a^16*b^4
*d^6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^6 + 2657205*a^12*b^8*d^6 -
531441*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*a^12*b^4*d^4 + 2066715*a
^14*b^2*d^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^4*d^
2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k)*(tan(c
/2 + (d*x)/2)*(157695787008*a^12*b^38 - 4039140556800*a^14*b^36 + 391830495
06816*a^16*b^34 - 212750482120704*a^18*b^32 + 750889290203136*a^20*b^30 - 1
854140141887488*a^22*b^28 + 3327952874029056*a^24*b^26 - 4413464400863232*a
^26*b^24 + 4311710468702208*a^28*b^22 - 3009938035433472*a^30*b^20 + 135980
8836452352*a^32*b^18 - 238981192998912*a^34*b^16 - 150898421366784*a^36*b^1
4 + 136937506922496*a^38*b^12 - 52028967665664*a^40*b^10 + 10565134000128*a
^42*b^8 - 976165945344*a^44*b^6 + 12093235200*a^46*b^4) - root(5314410*a^16
*b^4*d^6 - 5314410*a^14*b^6*d^6 - 2657205*a^18*b^2*d^6 + 2657205*a^12*b^8*d
^6 - 531441*a^10*b^10*d^6 + 531441*a^20*d^6 + 11514555*a^12*b^4*d^4 + 20667
15*a^14*b^2*d^4 + 1062882*a^10*b^6*d^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^
4*d^2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k)*(t

```

$$\begin{aligned}
& \text{an}(c/2 + (d*x)/2)*(69657034752*a^{11}*b^{41} - 1619526057984*a^{13}*b^{39} + 164042 \\
& 31684096*a^{15}*b^{37} - 99052303417344*a^{17}*b^{35} + 405403942256640*a^{19}*b^{33} - \\
& 1203882531618816*a^{21}*b^{31} + 2700324609196032*a^{23}*b^{29} - 4688893637296128 \\
& *a^{25}*b^{27} + 6394933732442112*a^{27}*b^{25} - 6897962008903680*a^{29}*b^{23} + 5886 \\
& 924977995776*a^{31}*b^{21} - 3949971812646912*a^{33}*b^{19} + 2053768012627968*a^{35} \\
& *b^{17} - 806001549115392*a^{37}*b^{15} + 227778503639040*a^{39}*b^{13} - 42212163059 \\
& 712*a^{41}*b^{11} + 3970450980864*a^{43}*b^9 + 52242776064*a^{45}*b^7 - 34828517376 \\
& *a^{47}*b^5) + 8707129344*a^{12}*b^{40} - 470184984576*a^{14}*b^{38} + 6308315209728* \\
& a^{16}*b^{36} - 44092902998016*a^{18}*b^{34} + 197477693521920*a^{20}*b^{32} - 62315183 \\
& 2891392*a^{22}*b^{30} + 1459506434899968*a^{24}*b^{28} - 2616109254180864*a^{26}*b^{26} \\
& + 3653180601827328*a^{28}*b^{24} - 4009284777738240*a^{30}*b^{22} + 34626773189099 \\
& 52*a^{32}*b^{20} - 2339013569937408*a^{34}*b^{18} + 1217047711186944*a^{36}*b^{16} - 47 \\
& 3946464452608*a^{38}*b^{14} + 130868154040320*a^{40}*b^{12} - 22777850363904*a^{42}*b^{10} \\
& + 1645647446016*a^{44}*b^8 + 156728328192*a^{46}*b^6 - 30474952704*a^{48}*b^4 \\
& + \text{root}(5314410*a^{16}*b^4*d^6 - 5314410*a^{14}*b^6*d^6 - 2657205*a^{18}*b^2*d^6 \\
& + 2657205*a^{12}*b^8*d^6 - 531441*a^{10}*b^{10}*d^6 + 531441*a^{20}*d^6 + 11514555* \\
& a^{12}*b^4*d^4 + 2066715*a^{14}*b^2*d^4 + 1062882*a^{10}*b^6*d^4 - 295245*a^8*b^8 \\
& *d^4 + 984150*a^8*b^4*d^2 - 98415*a^6*b^6*d^2 + 15625*a^4*b^4 - 2000*a^2*b^6 \\
& + 64*b^8, d, k)*(tan(c/2 + (d*x)/2)*(39182082048*a^{14}*b^{40} - 705277476864 \\
& *a^{16}*b^{38} + 5994858553344*a^{18}*b^{36} - 31972578951168*a^{20}*b^{34} + 119897171 \\
& 066880*a^{22}*b^{32} - 335712078987264*a^{24}*b^{30} + 727376171139072*a^{26}*b^{28} - \\
& 1246930579095552*a^{28}*b^{26} + 1714529546256384*a^{30}*b^{24} - 1905032829173760* \\
& a^{32}*b^{22} + 1714529546256384*a^{34}*b^{20} - 1246930579095552*a^{36}*b^{18} + 72737 \\
& 6171139072*a^{38}*b^{16} - 335712078987264*a^{40}*b^{14} + 119897171066880*a^{42}*b^{12} \\
& - 31972578951168*a^{44}*b^{10} + 5994858553344*a^{46}*b^8 - 705277476864*a^{48}*b^6 \\
& + 39182082048*a^{50}*b^4) + 156728328192*a^{13}*b^{41} - 2938656153600*a^{15}*b^{39} \\
& + 26095266643968*a^{17}*b^{37} - 145874891464704*a^{19}*b^{35} + 575506421121024 \\
& *a^{21}*b^{33} - 1702539829149696*a^{23}*b^{31} + 3916640921518080*a^{25}*b^{29} - 7169 \\
& 850829799424*a^{27}*b^{27} + 10598909922312192*a^{29}*b^{25} - 12763719955464192*a^{31} \\
& *b^{23} + 12573216672546816*a^{33}*b^{21} - 10131310955151360*a^{35}*b^{19} + 66502 \\
& 96421842944*a^{37}*b^{17} - 3524976829366272*a^{39}*b^{15} + 1486724921229312*a^{41}* \\
& b^{13} - 487581829005312*a^{43}*b^{11} + 119897171066880*a^{45}*b^9 - 2080568556748 \\
& 8*a^{47}*b^7 + 2272560758784*a^{49}*b^5 - 117546246144*a^{51}*b^3)) - 59982446592 \\
& *a^{11}*b^{39} + 1080651497472*a^{13}*b^{37} - 6860250464256*a^{15}*b^{35} + 1648211211 \\
& 8784*a^{17}*b^{33} + 27170113388544*a^{19}*b^{31} - 327284061511680*a^{21}*b^{29} + 119 \\
& 4949984370688*a^{23}*b^{27} - 2698934854606848*a^{25}*b^{25} + 4276847122808832*a^{27} \\
& *b^{23} - 4968511002943488*a^{29}*b^{21} + 4288329891495936*a^{31}*b^{19} - 27309180 \\
& 75604992*a^{33}*b^{17} + 1245220111908864*a^{35}*b^{15} - 377418744815616*a^{37}*b^{13} \\
& + 60571629010944*a^{39}*b^{11} + 1483598094336*a^{41}*b^9 - 2465085063168*a^{43}*b
\end{aligned}$$

$$\begin{aligned}
& ^7 + 316842762240*a^{45}*b^5) - 1719926784*a^8*b^{40} + 52457766912*a^{10}*b^{38} - \\
& 657657004032*a^{12}*b^{36} + 4778655326208*a^{14}*b^{34} - 23130112868352*a^{16}*b^{32} \\
& 2 + 80237540597760*a^{18}*b^{30} - 208280123670528*a^{20}*b^{28} + 415493301510144* \\
& a^{22}*b^{26} - 647354535100416*a^{24}*b^{24} + 794486155567104*a^{26}*b^{22} - 7697297 \\
& 98176768*a^{28}*b^{20} + 586362545233920*a^{30}*b^{18} - 347391134318592*a^{32}*b^{16} \\
& + 156884680286208*a^{34}*b^{14} - 52204937674752*a^{36}*b^{12} + 12071252385792*a^{38} \\
& 8*b^{10} - 1732933730304*a^{40}*b^8 + 116363796480*a^{42}*b^6 - \tan(c/2 + (d*x)/2 \\
&)*(19779158016*a^9*b^{39} - 436216430592*a^{11}*b^{37} + 3308494159872*a^{13}*b^{35} \\
& - 11619395371008*a^{15}*b^{33} + 12486453460992*a^{17}*b^{31} + 61196714901504*a^{19} \\
& *b^{29} - 334332052733952*a^{21}*b^{27} + 871706622099456*a^{23}*b^{25} - 15073939263 \\
& 65184*a^{25}*b^{23} + 1878255074082816*a^{27}*b^{21} - 1736372938899456*a^{29}*b^{19} + \\
& 1197522672353280*a^{31}*b^{17} - 608856446435328*a^{33}*b^{15} + 221032950792192*a \\
& ^{35}*b^{13} - 53644731383808*a^{37}*b^{11} + 7499310759936*a^{39}*b^9 - 345490292736 \\
& *a^{41}*b^7 - 26873856000*a^{43}*b^5)) + 95551488*a^7*b^{39} + 6640828416*a^9*b^{37} \\
& 7 - 187507851264*a^{11}*b^{35} + 1874314100736*a^{13}*b^{33} - 10498349481984*a^{15}* \\
& b^{31} + 38554452099072*a^{17}*b^{29} - 100273965023232*a^{19}*b^{27} + 1928073517793 \\
& 28*a^{21}*b^{25} - 280858991542272*a^{23}*b^{23} + 313783776903168*a^{25}*b^{21} - 2696 \\
& 40960196608*a^{27}*b^{19} + 177127448150016*a^{29}*b^{17} - 87483347288064*a^{31}*b^{15} \\
& 5 + 31483928641536*a^{33}*b^{13} - 7801408733184*a^{35}*b^{11} + 1191025410048*a^{37} \\
& *b^9 - 84503347200*a^{39}*b^7) - 59837128704*a^{10}*b^{34} + 363432738816*a^{12}*b^{32} \\
& - 1444185759744*a^{14}*b^{30} + 4071882866688*a^{16}*b^{28} - 8529191903232*a^{18} \\
& *b^{26} + 13638053265408*a^{20}*b^{24} - 16903052255232*a^{22}*b^{22} + 1634520607948 \\
& 8*a^{24}*b^{20} - 12319205842944*a^{26}*b^{18} + 7172803362816*a^{28}*b^{16} - 31669193 \\
& 68704*a^{30}*b^{14} + 1026022588416*a^{32}*b^{12} - 230217375744*a^{34}*b^{10} + 319832 \\
& 06400*a^{36}*b^8 - 2073600000*a^{38}*b^6 - \tan(c/2 + (d*x)/2)*(1911029760*a^7*b \\
& ^{37} - 56614256640*a^9*b^{35} + 591941468160*a^{11}*b^{33} - 3412860272640*a^{13}*b^{31} \\
& + 12781922549760*a^{15}*b^{29} - 33715581419520*a^{17}*b^{27} + 65518222049280*a \\
& ^{19}*b^{25} - 96227753656320*a^{21}*b^{23} + 108217793249280*a^{23}*b^{21} - 934949810 \\
& 99520*a^{25}*b^{19} + 61692340469760*a^{27}*b^{17} - 30585314672640*a^{29}*b^{15} + 110 \\
& 42885468160*a^{31}*b^{13} - 2743999856640*a^{33}*b^{11} + 419948789760*a^{35}*b^9 - 2 \\
& 9859840000*a^{37}*b^7))*\text{root}(5314410*a^{16}*b^4*d^6 - 5314410*a^{14}*b^6*d^6 - 26 \\
& 57205*a^{18}*b^2*d^6 + 2657205*a^{12}*b^8*d^6 - 531441*a^{10}*b^{10}*d^6 + 531441*a \\
& ^{20}*d^6 + 11514555*a^{12}*b^4*d^4 + 2066715*a^{14}*b^2*d^4 + 1062882*a^{10}*b^6*d \\
& ^4 - 295245*a^8*b^8*d^4 + 984150*a^8*b^4*d^2 - 98415*a^6*b^6*d^2 + 15625*a^ \\
& 4*b^4 - 2000*a^2*b^6 + 64*b^8, d, k), k, 1, 6)/d - ((2*(7*a^2*b + 2*b^3))/(\\
& 3*(a^2 - b^2)^2) + (2*\tan(c/2 + (d*x)/2)^6*(5*a^2*b + 4*b^3))/(3*(a^2 - b^2 \\
&)^2) + (2*\tan(c/2 + (d*x)/2)^2*(19*a^2*b + 8*b^3))/(3*(a^2 - b^2)^2) - (2*t \\
& \tan(c/2 + (d*x)/2)^4*(7*a^2*b + 38*b^3))/(3*(a^2 - b^2)^2) + (6*\tan(c/2 + (d \\
& *x)/2)^3*(b^4 - a^4 + 5*a^2*b^2))/(a*(a^2 - b^2)^2) - (2*\tan(c/2 + (d*x)/2)
\end{aligned}$$

$$\begin{aligned} &^5(9a^4 + 7b^4 + 11a^2b^2))/(3a(a^2 - b^2)^2) - (2\tan(c/2 + (d*x)/2) \\ &)^7(3a^4 + b^4 + 5a^2b^2))/(3a(a^4 + b^4 - 2a^2b^2)) - (2\tan(c/2 + \\ &(d*x)/2)(3a^4 + b^4 + 5a^2b^2))/(3a(a^2 - b^2)^2))/(d(a + 2a\tan(c \\ &/2 + (d*x)/2)^2 - 2a\tan(c/2 + (d*x)/2)^6 - a\tan(c/2 + (d*x)/2)^8 + 8b\tan \\ &(c/2 + (d*x)/2)^3 - 8b\tan(c/2 + (d*x)/2)^5)) \end{aligned}$$

Integral number [336]

$$\int \frac{\sec^4(c + dx)}{(a + b \sin^3(c + dx))^2} dx$$

[B] time = 46.2957 (sec), size = -1 ,normalized size = -0.04

Too large to display

[In] int(1/(cos(c + d*x)^4*(a + b*sin(c + d*x)^3)^2),x)

[Out]

```

symsum(log(26838024192*a^8*b^54 - tan(c/2 + (d*x)/2)*(7962624000*a^7*b^55 -
508612608000*a^9*b^53 + 8841498624000*a^11*b^51 - 82283765760000*a^13*b^49
+ 501714984960000*a^15*b^47 - 2205295497216000*a^17*b^45 + 737918163763200
0*a^19*b^43 - 19451488075776000*a^21*b^41 + 41318016122880000*a^23*b^39 - 7
1811432161280000*a^25*b^37 + 103155513237504000*a^27*b^35 - 123224906907648
000*a^29*b^33 + 122756816093184000*a^31*b^31 - 101967282708480000*a^33*b^29
+ 70396872007680000*a^35*b^27 - 40129785593856000*a^37*b^25 + 186876255928
32000*a^39*b^23 - 6994754113536000*a^41*b^21 + 2053854351360000*a^43*b^19 -
455730831360000*a^45*b^17 + 71860690944000*a^47*b^15 - 7177310208000*a^49*
b^13 + 341397504000*a^51*b^11) - 392822784*a^6*b^56 - root(18600435*a^18*b^
6*d^6 - 18600435*a^16*b^8*d^6 - 11160261*a^20*b^4*d^6 + 11160261*a^14*b^10*
d^6 + 3720087*a^22*b^2*d^6 - 3720087*a^12*b^12*d^6 + 531441*a^10*b^14*d^6 -
531441*a^24*d^6 - 173879622*a^14*b^6*d^4 - 155830311*a^12*b^8*d^4 - 232259
40*a^16*b^4*d^4 - 6475707*a^10*b^10*d^4 + 688905*a^8*b^12*d^4 - 11565585*a^
8*b^8*d^2 + 3750705*a^10*b^6*d^2 + 433755*a^6*b^10*d^2 - 117649*a^4*b^8 + 5
488*a^2*b^10 - 64*b^12, d, k)*(tan(c/2 + (d*x)/2)*(764411904*a^6*b^58 - 614
39606784*a^8*b^56 + 2110475575296*a^10*b^54 - 33643637121024*a^12*b^52 + 31
9697763065856*a^14*b^50 - 2067381036048384*a^16*b^48 + 9810082122817536*a^1
8*b^46 - 35797302942326784*a^20*b^44 + 103613766013034496*a^22*b^42 - 24300
4699498881024*a^24*b^40 + 468678655511248896*a^26*b^38 - 750973819695611904

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$$\begin{aligned}
& *a^{28}b^{36} + 1006348379003928576*a^{30}b^{34} - 1132028278205497344*a^{32}b^{32} \\
& + 1070100496146087936*a^{34}b^{30} - 848821864657895424*a^{36}b^{28} + 5626355927 \\
& 01198336*a^{38}b^{26} - 309384400894377984*a^{40}b^{24} + 139566181489975296*a^{42} \\
& *b^{22} - 50807786761396224*a^{44}b^{20} + 14569217952178176*a^{46}b^{18} - 3172130 \\
& 021597184*a^{48}b^{16} + 494158536400896*a^{50}b^{14} - 49418889191424*a^{52}b^{12} \\
& + 2463538323456*a^{54}b^{10} - 14338695168*a^{56}b^8) + 95551488*a^7*b^{57} + 358 \\
& 79583744*a^9*b^{55} - 1812522147840*a^{11}b^{53} + 29896430247936*a^{13}b^{51} - 27 \\
& 3690491977728*a^{15}b^{49} + 1665068560662528*a^{17}b^{47} - 7358934856605696*a^{19} \\
& *b^{45} + 24887080515133440*a^{21}b^{43} - 66575487905316864*a^{23}b^{41} + 144045 \\
& 035942510592*a^{25}b^{39} - 255939373888192512*a^{27}b^{37} + 377317716543258624* \\
& a^{29}b^{35} - 464589495171809280*a^{31}b^{33} + 479470084160126976*a^{33}b^{31} - 4 \\
& 15092174607761408*a^{35}b^{29} + 300910589340991488*a^{37}b^{27} - 18182304326703 \\
& 5136*a^{39}b^{25} + 90863416678809600*a^{41}b^{23} - 37111903240495104*a^{43}b^{21} \\
& + 12175612162301952*a^{45}b^{19} - 3127996467412992*a^{47}b^{17} + 60541899359846 \\
& 4*a^{49}b^{15} - 82897275985920*a^{51}b^{13} + 7145262637056*a^{53}b^{11} - 29087067 \\
& 3408*a^{55}b^9 + \text{root}(18600435*a^{18}b^6*d^6 - 18600435*a^{16}b^8*d^6 - 111602 \\
& 61*a^{20}b^4*d^6 + 11160261*a^{14}b^{10}d^6 + 3720087*a^{22}b^2*d^6 - 3720087*a \\
& ^{12}b^{12}d^6 + 531441*a^{10}b^{14}d^6 - 531441*a^{24}d^6 - 173879622*a^{14}b^6* \\
& d^4 - 155830311*a^{12}b^8*d^4 - 23225940*a^{16}b^4*d^4 - 6475707*a^{10}b^{10}d^ \\
& 4 + 688905*a^8*b^{12}d^4 - 11565585*a^8*b^8*d^2 + 3750705*a^{10}b^6*d^2 + 433 \\
& 755*a^6*b^{10}d^2 - 117649*a^4*b^8 + 5488*a^2*b^{10} - 64*b^{12}, d, k)*(\tan(c/2 \\
& + (d*x)/2)*(45578059776*a^9*b^{57} - 1988020371456*a^{11}b^{55} + 2172525517209 \\
& 6*a^{13}b^{53} - 78629462802432*a^{15}b^{51} - 330769869373440*a^{17}b^{49} + 533728 \\
& 8405614592*a^{19}b^{47} - 32144913894998016*a^{21}b^{45} + 126404118900965376*a^2 \\
& 3*b^{43} - 367050326151462912*a^{25}b^{41} + 829818883454238720*a^{27}b^{39} - 1502 \\
& 808604998893568*a^{29}b^{37} + 2216700870917750784*a^{31}b^{35} - 268852344938260 \\
& 0704*a^{33}b^{33} + 2692902186903011328*a^{35}b^{31} - 2227622993351147520*a^{37}b \\
& ^{29} + 1515332894269243392*a^{39}b^{27} - 839694861496221696*a^{41}b^{25} + 372789 \\
& 943915216896*a^{43}b^{23} - 128854679612424192*a^{45}b^{21} + 32863270985072640*a \\
& ^{47}b^{19} - 5445156193763328*a^{49}b^{17} + 316457498640384*a^{51}b^{15} + 9146398 \\
& 6446336*a^{53}b^{13} - 25165538721792*a^{55}b^{11} + 2461645209600*a^{57}b^9 - 737 \\
& 41860864*a^{59}b^7) + \text{root}(18600435*a^{18}b^6*d^6 - 18600435*a^{16}b^8*d^6 - 1 \\
& 1160261*a^{20}b^4*d^6 + 11160261*a^{14}b^{10}d^6 + 3720087*a^{22}b^2*d^6 - 3720 \\
& 087*a^{12}b^{12}d^6 + 531441*a^{10}b^{14}d^6 - 531441*a^{24}d^6 - 173879622*a^{14} \\
& *b^6*d^4 - 155830311*a^{12}b^8*d^4 - 23225940*a^{16}b^4*d^4 - 6475707*a^{10}b^ \\
& 10*d^4 + 688905*a^8*b^{12}d^4 - 11565585*a^8*b^8*d^2 + 3750705*a^{10}b^6*d^2 \\
& + 433755*a^6*b^{10}d^2 - 117649*a^4*b^8 + 5488*a^2*b^{10} - 64*b^{12}, d, k)*(ro \\
& ot(18600435*a^{18}b^6*d^6 - 18600435*a^{16}b^8*d^6 - 11160261*a^{20}b^4*d^6 + \\
& 11160261*a^{14}b^{10}d^6 + 3720087*a^{22}b^2*d^6 - 3720087*a^{12}b^{12}d^6 + 531
\end{aligned}$$

$$\begin{aligned}
& 441*a^{10}*b^{14}*d^6 - 531441*a^{24}*d^6 - 173879622*a^{14}*b^6*d^4 - 155830311*a^{12}*b^8*d^4 - 23225940*a^{16}*b^4*d^4 - 6475707*a^{10}*b^{10}*d^4 + 688905*a^8*b^{12}*d^4 - 11565585*a^8*b^8*d^2 + 3750705*a^{10}*b^6*d^2 + 433755*a^6*b^{10}*d^2 - \\
& 117649*a^4*b^8 + 5488*a^2*b^{10} - 64*b^{12}, d, k) * (\tan(c/2 + (d*x)/2) * (69657034752*a^{11}*b^{59} - 2855938424832*a^{13}*b^{57} + 46200028299264*a^{15}*b^{55} - 432918470983680*a^{17}*b^{53} + 2732993758494720*a^{19}*b^{51} - 12560556506480640*a^{21}*b^{49} + 43925900257198080*a^{23}*b^{47} - 119837962587340800*a^{25}*b^{45} + 257651619562782720*a^{27}*b^{43} - 433619569038458880*a^{29}*b^{41} + 549558392034263040*a^{31}*b^{39} - 452796847276032000*a^{33}*b^{37} + 36223747782082560*a^{35}*b^{35} + 641677817854033920*a^{37}*b^{33} - 1337691257381191680*a^{39}*b^{31} + 1759439177986867200*a^{41}*b^{29} - 1756851767431004160*a^{43}*b^{27} + 1404659530591764480*a^{45}*b^{25} - 917046791277281280*a^{47}*b^{23} + 491599995054981120*a^{49}*b^{21} - 215796448806174720*a^{51}*b^{19} + 76837281894236160*a^{53}*b^{17} - 21824767985909760*a^{55}*b^{15} + 4817480523448320*a^{57}*b^{13} - 793393625825280*a^{59}*b^{11} + 91181058490368*a^{61}*b^9 - 6460689973248*a^{63}*b^7 + 208971104256*a^{65}*b^5) + \text{root}(18600435*a^{18}*b^6*d^6 - 18600435*a^{16}*b^8*d^6 - 11160261*a^{20}*b^4*d^6 + 11160261*a^{14}*b^{10}*d^6 + 3720087*a^{22}*b^2*d^6 - 3720087*a^{12}*b^{12}*d^6 + 531441*a^{10}*b^{14}*d^6 - 531441*a^{24}*d^6 - 173879622*a^{14}*b^6*d^4 - 155830311*a^{12}*b^8*d^4 - 23225940*a^{16}*b^4*d^4 - 6475707*a^{10}*b^{10}*d^4 + 688905*a^8*b^{12}*d^4 - 11565585*a^8*b^8*d^2 + 3750705*a^{10}*b^6*d^2 + 433755*a^6*b^{10}*d^2 - 117649*a^4*b^8 + 5488*a^2*b^{10} - 64*b^{12}, d, k) * (\tan(c/2 + (d*x)/2) * (39182082048*a^{14}*b^{58} - 1057916215296*a^{16}*b^{56} + 13752910798848*a^{18}*b^{54} - 114607589990400*a^{20}*b^{52} + 687645539942400*a^{22}*b^{50} - 3163169483735040*a^{24}*b^{48} + 11598288107028480*a^{26}*b^{46} - 34794864321085440*a^{28}*b^{44} + 86987160802713600*a^{30}*b^{42} - 183639561694617600*a^{32}*b^{40} + 330551211050311680*a^{34}*b^{38} - 510851871623208960*a^{36}*b^{36} + 681135828830945280*a^{38}*b^{34} - 785925956343398400*a^{40}*b^{32} + 785925956343398400*a^{42}*b^{30} - 681135828830945280*a^{44}*b^{28} + 510851871623208960*a^{46}*b^{26} - 330551211050311680*a^{48}*b^{24} + 183639561694617600*a^{50}*b^{22} - 86987160802713600*a^{52}*b^{20} + 34794864321085440*a^{54}*b^{18} - 11598288107028480*a^{56}*b^{16} + 3163169483735040*a^{58}*b^{14} - 687645539942400*a^{60}*b^{12} + 114607589990400*a^{62}*b^{10} - 13752910798848*a^{64}*b^8 + 1057916215296*a^{66}*b^6 - 39182082048*a^{68}*b^4) + 156728328192*a^{13}*b^{59} - 4349211107328*a^{15}*b^{57} + 58185391841280*a^{17}*b^{55} - 499689092358144*a^{19}*b^{53} + 3094404929740800*a^{21}*b^{51} - 14715614554767360*a^{23}*b^{49} + 55882660879319040*a^{25}*b^{47} - 173974321605427200*a^{27}*b^{45} + 452333236174110720*a^{29}*b^{43} - 995519729186611200*a^{31}*b^{41} + 1873123529285099520*a^{33}*b^{39} - 3035061119643770880*a^{35}*b^{37} + 4257098930193408000*a^{37}*b^{35} - 5187111311866429440*a^{39}*b^{33} + 5501481694403788800*a^{41}*b^{31} - 5082321184353976320*a^{43}*b^{29} + 4086814972985671680*a^{45}*b^{27} - 2854760459070873600*a^{47}*b^{25} + 172
\end{aligned}$$

$$\begin{aligned}
& 6211879929405440*a^{49}*b^{23} - 898867328294707200*a^{51}*b^{21} + 400140939692482 \\
& 560*a^{53}*b^{19} - 150777745391370240*a^{55}*b^{17} + 47447542256025600*a^{57}*b^{15} \\
& - 12240090610974720*a^{59}*b^{13} + 2521366979788800*a^{61}*b^{11} - 39883441316659 \\
& 2*a^{63}*b^9 + 45490397257728*a^{65}*b^7 - 3330476974080*a^{67}*b^5 + 11754624614 \\
& 4*a^{69}*b^3) + 8707129344*a^{12}*b^{58} - 1332190789632*a^{14}*b^{56} + 286812840591 \\
& 36*a^{16}*b^{54} - 311301641871360*a^{18}*b^{52} + 2177740120227840*a^{20}*b^{50} - 109 \\
& 22397191700480*a^{22}*b^{48} + 41634880384204800*a^{24}*b^{46} - 125003771820195840 \\
& *a^{26}*b^{44} + 302447666790973440*a^{28}*b^{42} - 598319665965711360*a^{30}*b^{40} + \\
& 975644030336532480*a^{32}*b^{38} - 1314242849218682880*a^{34}*b^{36} + 145541843767 \\
& 2960000*a^{36}*b^{34} - 1304054920154972160*a^{38}*b^{32} + 908181105107927040*a^{40} \\
& *b^{30} - 436625531301888000*a^{42}*b^{28} + 66949248132956160*a^{44}*b^{26} + 118659 \\
& 409094983680*a^{46}*b^{24} - 149422959601090560*a^{48}*b^{22} + 105921118310768640* \\
& a^{50}*b^{20} - 54125344499466240*a^{52}*b^{18} + 21015701527265280*a^{54}*b^{16} - 623 \\
& 6220178759680*a^{56}*b^{14} + 1388221166960640*a^{58}*b^{12} - 222162405212160*a^{60} \\
& *b^{10} + 23587613392896*a^{62}*b^8 - 1410554953728*a^{64}*b^6 + 30474952704*a^{66} \\
& *b^4) - \tan(c/2 + (d*x)/2)*(505980960768*a^{12}*b^{56} - 28050984640512*a^{14}*b^{54} \\
& + 435764251090944*a^{16}*b^{52} - 3575718109347840*a^{18}*b^{50} + 1873026485909 \\
& 9136*a^{20}*b^{48} - 67896173119315968*a^{22}*b^{46} + 175151109969174528*a^{24}*b^{44} \\
& - 313178493592682496*a^{26}*b^{42} + 322543721316925440*a^{28}*b^{40} + 8781790172 \\
& 4942336*a^{30}*b^{38} - 1141107740572336128*a^{32}*b^{36} + 2683287241504063488*a^3 \\
& 4*b^{34} - 4099946394045874176*a^{36}*b^{32} + 4680202272693534720*a^{38}*b^{30} - 41 \\
& 59807137221197824*a^{40}*b^{28} + 2907691359083200512*a^{42}*b^{26} - 1583635567837 \\
& 888512*a^{44}*b^{24} + 650291463103832064*a^{46}*b^{22} - 184497987902054400*a^{48}*b \\
& ^{20} + 25459845498372096*a^{50}*b^{18} + 4948055537467392*a^{52}*b^{16} - 3746991697 \\
& 108992*a^{54}*b^{14} + 988831432433664*a^{56}*b^{12} - 136164991057920*a^{58}*b^{10} + \\
& 8069573984256*a^{60}*b^8 + 13544423424*a^{62}*b^6) + 137379151872*a^{11}*b^{57} - 4 \\
& 254400143360*a^{13}*b^{55} + 29689859874816*a^{15}*b^{53} + 87020018122752*a^{17}*b^{51} \\
& - 2614627107274752*a^{19}*b^{49} + 20133104812498944*a^{21}*b^{47} - 940057649259 \\
& 72480*a^{23}*b^{45} + 309275227789295616*a^{25}*b^{43} - 759972938071523328*a^{27}*b^{41} \\
& + 1428994663615807488*a^{29}*b^{39} - 2057877923764617216*a^{31}*b^{37} + 219990 \\
& 8326418841600*a^{33}*b^{35} - 1543980376177311744*a^{35}*b^{33} + 26007819686269747 \\
& 2*a^{37}*b^{31} + 1033592707257090048*a^{39}*b^{29} - 1728050263069556736*a^{41}*b^{27} \\
& + 1665648670228807680*a^{43}*b^{25} - 1148576443783962624*a^{45}*b^{23} + 59309889 \\
& 9751084032*a^{47}*b^{21} - 228687912023703552*a^{49}*b^{19} + 63216104157609984*a^5 \\
& 1*b^{17} - 11132817065533440*a^{53}*b^{15} + 707704347303936*a^{55}*b^{13} + 17592464 \\
& 6019072*a^{57}*b^{11} - 46657636319232*a^{59}*b^9 + 3600881713152*a^{61}*b^7) + 171 \\
& 9926784*a^8*b^{58} - 109860323328*a^{10}*b^{56} + 2586984873984*a^{12}*b^{54} - 35812 \\
& 476739584*a^{14}*b^{52} + 329722810195968*a^{16}*b^{50} - 2157051013447680*a^{18}*b^{48} \\
& + 10507597396918272*a^{20}*b^{46} - 39457190948069376*a^{22}*b^{44} + 11717768641
\end{aligned}$$

$$\begin{aligned}
& 9562496a^{24}b^{42} - 280405445559386112a^{26}b^{40} + 547971334969098240a^{28}b^{38} - 882457306853326848a^{30}b^{36} + 1177391139070132224a^{32}b^{34} - 1303949437690281984a^{34}b^{32} + 1196629258750230528a^{36}b^{30} - 904425852978708480a^{38}b^{28} + 556165530870792192a^{40}b^{26} - 272082763494752256a^{42}b^{24} \\
& + 101333478214434816a^{44}b^{22} - 25813305663086592a^{46}b^{20} + 2756171653079040a^{48}b^{18} + 957737252339712a^{50}b^{16} - 557094927384576a^{52}b^{14} + 135955536224256a^{54}b^{12} - 17862568353792a^{56}b^{10} + 1032386052096a^{58}b^8 \\
&)) - 547736297472a^{10}b^{52} + 5998567809024a^{12}b^{50} - 42798845214720a^{14}b^{48} + 218837397897216a^{16}b^{46} - 847734439845888a^{18}b^{44} + 2578107250925568a^{20}b^{42} - 6304715180015616a^{22}b^{40} + 12605115522908160a^{24}b^{38} \\
& - 20839646107090944a^{26}b^{36} + 28704537977536512a^{28}b^{34} - 33083332509007872a^{30}b^{32} + 31955047610056704a^{32}b^{30} - 25837736359772160a^{34}b^{28} \\
& + 17420116682981376a^{36}b^{26} - 9723722502832128a^{38}b^{24} + 4443893749628928a^{40}b^{22} - 1635506216902656a^{42}b^{20} + 472961442078720a^{44}b^{18} - 103502089764864a^{46}b^{16} + 16115525517312a^{48}b^{14} - 1591065649152a^{50}b^{12} \\
& + 74879852544a^{52}b^{10})\text{root}(18600435a^{18}b^6d^6 - 18600435a^{16}b^8d^6 - 11160261a^{20}b^4d^6 + 11160261a^{14}b^{10}d^6 + 3720087a^{22}b^2d^6 - 3720087a^{12}b^{12}d^6 + 531441a^{10}b^{14}d^6 - 531441a^{24}d^6 - 173879622a^{14}b^6d^4 - 155830311a^{12}b^8d^4 - 23225940a^{16}b^4d^4 - 6475707a^{10}b^{10}d^4 + 688905a^8b^{12}d^4 - 11565585a^8b^8d^2 + 3750705a^{10}b^6d^2 + 433755a^6b^{10}d^2 - 117649a^4b^8 + 5488a^2b^{10} - 64b^{12}, d, k), k, 1, 6)/d + ((2*(4a^4b + 3b^5 + 38a^2b^3))/(3*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (2*\tan(c/2 + (d*x)/2)^8*(47b^5 - 4a^4b + 62a^2b^3))/((a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) + (4*\tan(c/2 + (d*x)/2)^6*(119b^5 - 24a^4b + 220a^2b^3))/(3*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) + (6*\tan(c/2 + (d*x)/2)^2*(b^5 + 4a^2b^3))/((a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (100*\tan(c/2 + (d*x)/2)^4*(b^5 + 2a^2b^3))/((a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) + (6*\tan(c/2 + (d*x)/2)^10*(b^5 + 4a^2b^3))/((a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (2*\tan(c/2 + (d*x)/2)^11*(b^6 - 3a^6 + 19a^2b^4 + 28a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (2*\tan(c/2 + (d*x)/2)^9*(9b^6 - 7a^6 + 19a^2b^4 + 24a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) + (4*\tan(c/2 + (d*x)/2)^7*(3a^6 + 17b^6 + 179a^2b^4 + 26a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) + (2*\tan(c/2 + (d*x)/2)^3*(7a^6 + 15b^6 + 285a^2b^4 + 8a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (4*\tan(c/2 + (d*x)/2)^5*(19b^6 - 3a^6 + 277a^2b^4 + 22a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)) - (2*\tan(c/2 + (d*x)/2)*(b^6 - 3a^6 + 19a^2b^4 + 28a^4b^2))/(3*a*(a^2 - b^2)*(a^4 + b^4 - 2a^2b^2)))/(d*(a - 3*a*\tan(c/2 + (d*x)/2)^4 + 3*a*\tan(c/2 + (d*x)/2)^8 - a*\tan(c/2 + (d*x)/2)^12 + 8*b*\tan(c/2 + (d*x)/2)^3 - 24*b*\tan(c/2 + (d*x)/2)^5
\end{aligned}$$

$$+ 24*b*\tan(c/2 + (d*x)/2)^7 - 8*b*\tan(c/2 + (d*x)/2)^9))$$

4.7 Test file Number [264]

Mathematica

Integral number [190]

$$\int \frac{(c + d \arccos(ex))(a + b \arcsin(ex))}{x} dx$$

[C] time = 0.0916403 (sec), size = 167 ,normalized size = 8.35

$$c(a + b(\arccos(ex) + \arcsin(ex))) \log(x) + (-bc + ad + bd(\arccos(ex) + \arcsin(ex))) \left(-\frac{1}{2}i \arccos(ex)^2 + \right.$$

[In] Integrate[((c + d*ArcCos[e*x])*(a + b*ArcSin[e*x]))/x,x]

[Out]

c*(a + b*(ArcCos[e*x] + ArcSin[e*x]))*Log[x] + (-b*c) + a*d + b*d*(ArcCos[e*x] + ArcSin[e*x])*((-1/2*I)*ArcCos[e*x]^2 + ArcCos[e*x]*Log[1 + E^((2*I)*ArcCos[e*x])]) - (I/2)*PolyLog[2, -E^((2*I)*ArcCos[e*x])]) - b*d*((-1/3*I)*ArcCos[e*x]^3 + ArcCos[e*x]^2*Log[1 + E^((2*I)*ArcCos[e*x])]) - I*ArcCos[e*x]*PolyLog[2, -E^((2*I)*ArcCos[e*x])]) + PolyLog[3, -E^((2*I)*ArcCos[e*x])]/2)

Integral number [191]

$$\int \frac{(c + d \arccos(ex))(a + b \arcsin(ex))}{x^2} dx$$

[C] time = 0.135226 (sec), size = 163 ,normalized size = 8.15

$$-c(a + b(\arccos(ex) + \arcsin(ex))) + (bc - ad - bd(\arccos(ex) + \arcsin(ex))) (\arccos(ex) - ex \operatorname{arctanh}(\sqrt{1 - e^{2x}}))$$

[In] Integrate[((c + d*ArcCos[e*x])*(a + b*ArcSin[e*x]))/x^2,x]

[Out]

```
(-(c*(a + b*(ArcCos[e*x] + ArcSin[e*x]))) + (b*c - a*d - b*d*(ArcCos[e*x] +
ArcSin[e*x]))*(ArcCos[e*x] - e*x*ArcTanh[Sqrt[1 - e^2*x^2]]) + b*d*(ArcCos
[e*x]^2 - 2*e*x*(ArcCos[e*x]*(Log[1 - I*E^(I*ArcCos[e*x]]) - Log[1 + I*E^(I
*ArcCos[e*x]])] + I*(PolyLog[2, (-I)*E^(I*ArcCos[e*x]]) - PolyLog[2, I*E^(I
*ArcCos[e*x]])]))) / x
```

4.8 Test file Number [280]

Mathematica

Integral number [65]

$$\int \frac{\arctan(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.29231 (sec), size = 163 ,normalized size = 5.82

$$\frac{6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + 10(a + bx) \arctan(a + bx) + \frac{4(a+bx) \arctan(a+bx) \operatorname{Hypergeometric2F1}\left(1, \frac{4}{3}, \frac{11}{6}, \frac{1}{1+(a+bx)^2}\right)}{1+(a+bx)^2}\right)}{20b \sqrt[3]{1 + a^2 + 2abx + b^2x^2} \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right)}$$

[In] Integrate[ArcTan[a + b*x]/(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3), x]

[Out]

```
(6*Gamma[11/6]*Gamma[7/3]*(15 + 10*(a + b*x)*ArcTan[a + b*x] + (4*(a + b*x)
*ArcTan[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + (a + b*x)^2)^(-1)])/(
1 + (a + b*x)^2)) + (5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/
3, 4/3}, {11/6, 7/3}, (1 + (a + b*x)^2)^(-1)]/(1 + (a + b*x)^2))/(20*b*(1
+ a^2 + 2*a*b*x + b^2*x^2)^(1/3)*Gamma[11/6]*Gamma[7/3])
```

Integral number [66]

$$\int \frac{\arctan(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abcx + b^2cx^2}} dx$$

[B] time = 0.145754 (sec), size = 165 ,normalized size = 5.

$$\frac{6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + 10(a + bx) \arctan(a + bx) + \frac{4(a+bx) \arctan(a+bx) \operatorname{Hypergeometric2F1}\left(1, \frac{4}{3}, \frac{11}{6}, \frac{1}{1+(a+bx)^2}\right)}{1+(a+bx)^2}\right)}{20b\sqrt[3]{c(1+a^2+2abx+b^2x^2)} \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right)}$$

[In] Integrate[ArcTan[a + b*x]/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3), x]

[Out]

(6*Gamma[11/6]*Gamma[7/3]*(15 + 10*(a + b*x)*ArcTan[a + b*x] + (4*(a + b*x)*ArcTan[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + (a + b*x)^2)^(-1)])/(1 + (a + b*x)^2)) + (5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + (a + b*x)^2)^(-1)]/(1 + (a + b*x)^2))/(20*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^(1/3)*Gamma[11/6]*Gamma[7/3])

Integral number [70]

$$\int \frac{(a + bx)^2 \arctan(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 4.38448 (sec), size = 181 ,normalized size = 5.17

$$3(1 + (a + bx)^2)^{2/3} \left(\frac{5\sqrt[3]{2}\sqrt{\pi} \Gamma\left(\frac{5}{3}\right) {}_3F_2\left(1, \frac{4}{3}, \frac{4}{3}; \frac{11}{6}, \frac{7}{3}; \frac{1}{1+(a+bx)^2}\right)}{(1+(a+bx)^2)^2} + \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \left(15 + \frac{90}{1+(a+bx)^2}\right) \right)$$

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[In] Integrate[((a + b*x)^2*ArcTan[a + b*x])/((1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3)), x]

[Out]

(-3*(1 + (a + b*x)^2)^(2/3)*((5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + (a + b*x)^2)^(-1)]/(1 + (a + b*x)^2)^2 + Gamma[11/6]*Gamma[7/3]*(15 + 90/(1 + (a + b*x)^2) + (24*(a + b*x)*ArcTan[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + (a + b*x)^2)^(-1)])/(1 + (a + b*x)^2)^2 + 5*ArcTan[a + b*x]*(-4*(a + b*x) + 6*Sin[2*ArcTan[a + b*x]]))) / (140*b*Gamma[11/6]*Gamma[7/3])

Integral number [71]

$$\int \frac{(a + bx)^2 \arctan(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abx + b^2x^2}} dx$$

[B] time = 0.693246 (sec), size = 225 ,normalized size = 5.62

$$\frac{3\sqrt[3]{1 + a^2 + 2abx + b^2x^2}(1 + (a + bx)^2)^{2/3} \left(\frac{5\sqrt[3]{2}\sqrt{\pi} \Gamma(\frac{5}{3}) {}_3F_2\left(1, \frac{4}{3}, \frac{4}{3}; \frac{11}{6}, \frac{7}{3}; \frac{1}{1+(a+bx)^2}\right)}{(1+(a+bx)^2)^2} + \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) \right)}{140b\sqrt[3]{c(1 + a^2 + 2abx + b^2x^2)}}$$

[In] Integrate[((a + b*x)^2*ArcTan[a + b*x])/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3), x]

[Out]

```
(-3*(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3)*(1 + (a + b*x)^2)^(2/3)*((5*2^(1/3)
*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + (a
+ b*x)^2)^(-1)])/(1 + (a + b*x)^2)^2 + Gamma[11/6]*Gamma[7/3]*(15 + 90/(1 +
(a + b*x)^2) + (24*(a + b*x)*ArcTan[a + b*x]*Hypergeometric2F1[1, 4/3, 11/
6, (1 + (a + b*x)^2)^(-1)])/(1 + (a + b*x)^2)^2 + 5*ArcTan[a + b*x]*(-4*(a
+ b*x) + 6*Sin[2*ArcTan[a + b*x]])))/((140*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^
2))^(1/3)*Gamma[11/6]*Gamma[7/3]))
```

4.9 Test file Number [285]

Mathematica

Integral number [47]

$$\int \frac{\cot^{-1}(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.275134 (sec), size = 177 ,normalized size = 6.32

$$\frac{6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + a^2 + 2abx + b^2x^2) (-3 + 2(a + bx) \cot^{-1}(a + bx)) + 4(a + bx) \cot^{-1}(a + bx))}{20b(1 + a^2 + 2abx + b^2x^2)}$$

[In] Integrate[ArcCot[a + b*x]/(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3),x]

[Out]

(6*Gamma[11/6]*Gamma[7/3]*(5*(1 + a^2 + 2*a*b*x + b^2*x^2)*(-3 + 2*(a + b*x))*ArcCot[a + b*x]) + 4*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) - 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)))/(20*b*(1 + a^2 + 2*a*b*x + b^2*x^2)^(4/3)*Gamma[11/6]*Gamma[7/3])

Integral number [48]

$$\int \frac{\cot^{-1}(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abx + b^2x^2}} dx$$

[B] time = 0.13903 (sec), size = 180 ,normalized size = 5.45

$$\frac{c \left(6 \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + a^2 + 2abx + b^2x^2) (-3 + 2(a + bx) \cot^{-1}(a + bx)) + 4(a + bx) \cot^{-1}(a + bx)) \right)}{20b(c(1 + a^2 + 2abx + b^2x^2))^{4/3} \Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right)}$$

[In] Integrate[ArcCot[a + b*x]/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3),x]

[Out]

(c*(6*Gamma[11/6]*Gamma[7/3]*(5*(1 + a^2 + 2*a*b*x + b^2*x^2)*(-3 + 2*(a + b*x))*ArcCot[a + b*x]) + 4*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) - 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)))/(20*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^(4/3)*Gamma[11/6]*Gamma[7/3])

Integral number [52]

$$\int \frac{(a + bx)^2 \cot^{-1}(a + bx)}{\sqrt[3]{1 + a^2 + 2abx + b^2x^2}} dx$$

[B] time = 0.684444 (sec), size = 198 ,normalized size = 5.66

$$\frac{3 \left(\Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + (a + bx)^2) (3(7 + (a + bx)^2) + 4(a + bx) (-2 + (a + bx)^2) \cot^{-1}(a + bx)) \right)}{140b\sqrt[3]{1 + a^2 + 2abx}}$$

[In] Integrate[((a + b*x)^2*ArcCot[a + b*x])/((1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3)),x]

[Out]

(3*(Gamma[11/6]*Gamma[7/3]*(5*(1 + (a + b*x)^2)*(3*(7 + (a + b*x)^2) + 4*(a + b*x)*(-2 + (a + b*x)^2)*ArcCot[a + b*x]) - 24*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) + 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]))/(140*b*(1 + a^2 + 2*a*b*x + b^2*x^2)^(1/3))*(1 + (a + b*x)^2)*Gamma[11/6]*Gamma[7/3])

Integral number [53]

$$\int \frac{(a + bx)^2 \cot^{-1}(a + bx)}{\sqrt[3]{(1 + a^2)c + 2abcx + b^2cx^2}} dx$$

[B] time = 0.28366 (sec), size = 200 ,normalized size = 5.

$$\frac{3 \left(\Gamma\left(\frac{11}{6}\right) \Gamma\left(\frac{7}{3}\right) (5(1 + (a + bx)^2) (3(7 + (a + bx)^2) + 4(a + bx) (-2 + (a + bx)^2) \cot^{-1}(a + bx)) - 24(a + bx) \cot^{-1}(a + bx)) + 5 \cdot 2^{1/3} \sqrt{\pi} \Gamma\left(\frac{5}{3}\right) \text{HypergeometricPFQ}\left[\left\{1, \frac{4}{3}, \frac{4}{3}\right\}, \left\{\frac{11}{6}, \frac{7}{3}\right\}, (1 + a^2 + 2abx + b^2x^2)^{-1}\right] \right)}{140b \sqrt[3]{c(1 + a^2 + 2abx + b^2x^2)}}$$

[In] Integrate[((a + b*x)^2*ArcCot[a + b*x])/((1 + a^2)*c + 2*a*b*c*x + b^2*c*x^2)^(1/3),x]

[Out]

(3*(Gamma[11/6]*Gamma[7/3]*(5*(1 + (a + b*x)^2)*(3*(7 + (a + b*x)^2) + 4*(a + b*x)*(-2 + (a + b*x)^2)*ArcCot[a + b*x]) - 24*(a + b*x)*ArcCot[a + b*x]*Hypergeometric2F1[1, 4/3, 11/6, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]) + 5*2^(1/3)*Sqrt[Pi]*Gamma[5/3]*HypergeometricPFQ[{1, 4/3, 4/3}, {11/6, 7/3}, (1 + a^2 + 2*a*b*x + b^2*x^2)^(-1)]))/(140*b*(c*(1 + a^2 + 2*a*b*x + b^2*x^2))^(1/3))*(1 + (a + b*x)^2)*Gamma[11/6]*Gamma[7/3])

4.10 Test file Number [308]

Mathematica

Integral number [74]

$$\int \frac{\sinh^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.655317 (sec), size = 826 ,normalized size = 35.91

$$-9a(a^2 + 3b^2) \cosh(c + dx) + a^3 \cosh(3(c + dx)) - ab^2 \cosh(3(c + dx)) - 2ab \operatorname{RootSum} \left[a - b + 3a\#1^2 + \right.$$

[In] Integrate[Sinh[c + d*x]^3/(a + b*Tanh[c + d*x]^3),x]

[Out]

```
(-9*a*(a^2 + 3*b^2)*Cosh[c + d*x] + a^3*Cosh[3*(c + d*x)] - a*b^2*Cosh[3*(c + d*x)] - 2*a*b*RootSum[a - b + 3*a*#1^2 + 3*b*#1^2 + 3*a*#1^4 - 3*b*#1^4 + a*#1^6 + b*#1^6 & , (3*a^2*c + 3*a*b*c + 3*b^2*c + 3*a^2*d*x + 3*a*b*d*x + 3*b^2*d*x + 6*a^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 6*a*b*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 6*b^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 2*a^2*c*#1^2 - 2*b^2*c*#1^2 + 2*a^2*d*x*#1^2 - 2*b^2*d*x*#1^2 + 4*a^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^2 - 4*b^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^2 + 3*a^2*c*#1^4 - 3*a*b*c*#1^4 + 3*b^2*c*#1^4 + 3*a^2*d*x*#1^4 - 3*a*b*d*x*#1^4 + 3*b^2*d*x*#1^4 + 6*a^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4 - 6*a*b*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4 + 6*b^2*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4)/(a*#1 + b*#1 + 2*a*#1^3 - 2*b*#1^3 + a*#1^5 + b*#1^5) & ] + 27*a^2*b*Sinh[c + d*x] + 9*b^3*Sinh[c + d*x] - a^2*b*Sinh[3*(c + d*x)] + b^3*Sinh[3*(c + d*x)]/(12*(a - b)^2*(a + b)^2*d)
```

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.431925 (sec), size = 409 ,normalized size = 19.48

$$6a \cosh(c + dx) + b \text{RootSum} \left[a - b + 3a\#1^2 + 3b\#1^2 + 3a\#1^4 - 3b\#1^4 + a\#1^6 + b\#1^6 \&, \frac{2ac+bc+2adx+bd}{\dots} \right]$$

[In] Integrate[Sinh[c + d*x]/(a + b*Tanh[c + d*x]^3),x]

[Out]

```
(6*a*Cosh[c + d*x] + b*RootSum[a - b + 3*a*#1^2 + 3*b*#1^2 + 3*a*#1^4 - 3*b*#1^4 + a*#1^6 + b*#1^6 & , (2*a*c + b*c + 2*a*d*x + b*d*x + 4*a*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 2*b*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1] + 2*a*c*#1^4 - b*c*#1^4 + 2*a*d*x*#1^4 - b*d*x*#1^4 + 4*a*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4 - 2*b*Log[-Cosh[(c + d*x)/2] - Sinh[(c + d*x)/2] + Cosh[(c + d*x)/2]*#1 - Sinh[(c + d*x)/2]*#1]*#1^4)/(a*#1 + b*#1 + 2*a*#1^3 - 2*b*#1^3 + a*#1^5 + b*#1^5) & ] - 6*b*Sinh[c + d*x])/(6*(a - b)*(a + b)*d)
```

Integral number [77]

$$\int \frac{\operatorname{csch}(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.374288 (sec), size = 331 ,normalized size = 15.76

$$6 \log \left(\cosh \left(\frac{1}{2}(c + dx) \right) \right) - 6 \log \left(\sinh \left(\frac{1}{2}(c + dx) \right) \right) + b \text{RootSum} \left[a - b + 3a\#1^2 + 3b\#1^2 + 3a\#1^4 - 3b\#1^4 + a\#1^6 + b\#1^6 \&, \frac{2ac+bc+2adx+bd}{\dots} \right]$$

[In] Integrate[Csch[c + d*x]/(a + b*Tanh[c + d*x]^3),x]

[Out]

$-1/6*(6*\text{Log}[\text{Cosh}[(c + d*x)/2]] - 6*\text{Log}[\text{Sinh}[(c + d*x)/2]] + b*\text{RootSum}[a - b + 3*a^{1^2} + 3*b^{1^2} + 3*a^{1^4} - 3*b^{1^4} + a^{1^6} + b^{1^6} \& , (c + d*x + 2*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*\#1 - \text{Sinh}[(c + d*x)/2]*\#1] - 2*c^{1^2} - 2*d*x^{1^2} - 4*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*\#1 - \text{Sinh}[(c + d*x)/2]*\#1]*\#1^2 + c^{1^4} + d*x^{1^4} + 2*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*\#1 - \text{Sinh}[(c + d*x)/2]*\#1]*\#1^4)/(a^{1^3} + b^{1^3} + 2*a^{1^3} - 2*b^{1^3} + a^{1^5} + b^{1^5}) \&])/(a*d)$

Integral number [79]

$$\int \frac{\text{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 0.540852 (sec), size = 214 ,normalized size = 9.3

$$16b\text{RootSum}\left[a - b + 3a^{1^2} + 3b^{1^2} + 3a^{1^4} - 3b^{1^4} + a^{1^6} + b^{1^6} \& , \frac{c^{1^2} + dx^{1^2} + 2 \log\left(-\cosh\left(\frac{1}{2}(c+dx)\right)\right)}{a+b}\right]$$

[In] Integrate[Csch[c + d*x]^3/(a + b*Tanh[c + d*x]^3),x]

[Out]

$-1/24*(16*b*\text{RootSum}[a - b + 3*a^{1^2} + 3*b^{1^2} + 3*a^{1^4} - 3*b^{1^4} + a^{1^6} + b^{1^6} \& , (c^{1^2} + d*x^{1^2} + 2*\text{Log}[-\text{Cosh}[(c + d*x)/2] - \text{Sinh}[(c + d*x)/2] + \text{Cosh}[(c + d*x)/2]*\#1 - \text{Sinh}[(c + d*x)/2]*\#1]*\#1)/(a + b + 2*a^{1^2} - 2*b^{1^2} + a^{1^4} + b^{1^4}) \&] + 3*(\text{Csch}[(c + d*x)/2]^2 - 4*\text{Log}[\text{Cosh}[(c + d*x)/2]] + 4*\text{Log}[\text{Sinh}[(c + d*x)/2]] + \text{Sech}[(c + d*x)/2]^2)/(a*d)$

Fricas

Integral number [74]

$$\int \frac{\sinh^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 4.19478 (sec), size = 62017 ,normalized size = 2696.39

Too large to display

[In] integrate(sinh(d*x+c)^3/(a+b*tanh(d*x+c)^3),x, algorithm="fricas")

[Out]

$$\begin{aligned} & 1/24*((a^3 - a^2*b - a*b^2 + b^3)*\cosh(d*x + c)^6 + 6*(a^3 - a^2*b - a*b^2 \\ & + b^3)*\cosh(d*x + c)*\sinh(d*x + c)^5 + (a^3 - a^2*b - a*b^2 + b^3)*\sinh(d*x \\ & + c)^6 - 9*(a^3 - 3*a^2*b + 3*a*b^2 - b^3)*\cosh(d*x + c)^4 - 3*(3*a^3 - 9* \\ & a^2*b + 9*a*b^2 - 3*b^3 - 5*(a^3 - a^2*b - a*b^2 + b^3)*\cosh(d*x + c)^2)*\sinh \\ & (d*x + c)^4 + 4*(5*(a^3 - a^2*b - a*b^2 + b^3)*\cosh(d*x + c)^3 - 9*(a^3 - \\ & 3*a^2*b + 3*a*b^2 - b^3)*\cosh(d*x + c))*\sinh(d*x + c)^3 - 4*\sqrt{2/3}*\sqrt{ \\ & (1/6)*((a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^3 + 3*(a^4 - 2*a^2*b^2 + b^4) \\ &)*d*\cosh(d*x + c)^2*\sinh(d*x + c) + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + \\ & c)*\sinh(d*x + c)^2 + (a^4 - 2*a^2*b^2 + b^4)*d*\sinh(d*x + c)^3)*\sqrt{-(810* \\ & a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10* \\ & a^4*b^6 + 5*a^2*b^8 - b^{10})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4 \\ & 4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6))^2 \\ & /((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 \\ & - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 \\ & + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5* \\ & a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6 \\ & b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2 \\ & 2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4 \\ & 4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\ & 6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 \\ & ^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + \\ & 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6 \\ & 6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6 \\ & ^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + \\ & 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2* \\ & b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 \\ & - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2 \\ & ^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 \\ & + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 \\ & + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10* \\ & a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*d^2 + 3*\sqrt{1/3}*(a^{10} - 5*a^8*b^2 \\ & 2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2*\sqrt{(6480*a^{14}*b^2 + 1 \\ & 79820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 17 \\ & 9820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14} \\ & 4*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4 \end{aligned}$$

$$\begin{aligned}
& *b^{16} - 10*a^2*b^{18} + b^{20})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2 \\
& / (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 \\
& + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95*a^{10}*b^8 - 95*a^8*b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a
\end{aligned}$$

$$\begin{aligned}
& 2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10 \\
& *a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*d^5 + 18*(a^{15} + 2*a^{14}*b + 5*a^{13} \\
& *b^2 - 20*a^{12}*b^3 - 42*a^{11}*b^4 + 69*a^{10}*b^5 + 100*a^9*b^6 - 115*a^8*b^7 \\
& - 115*a^7*b^8 + 100*a^6*b^9 + 69*a^5*b^{10} - 42*a^4*b^{11} - 20*a^3*b^{12} + 5* \\
& a^2*b^{13} + 2*a*b^{14} + b^{15})*d^3)*sqrt((6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 15 \\
& 84360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 648 \\
& 0*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 \\
& - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} \\
& + b^{20})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8* \\
& b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))^2*(- \\
& I*sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 \\
& - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 \\
& + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4* \\
& b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 \\
& - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/ \\
& (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 \\
& - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - \\
& 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^ \\
& 2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 \\
& - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}* \\
& d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10} \\
& *d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) \\
& - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + \\
& 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} \\
& - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a \\
& ^2 - b^2)^{10}*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a \\
& ^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2* \\
& b^8*d^2 - b^{10}*d^2))^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + \\
& 95*a^{10}*b^8 - 95*a^8*b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2* \\
& b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9 \\
& *(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6* \\
& b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))^2*(-I*sqrt(3) + 1)/(- \\
& 1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 \\
& + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^ \\
& 2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2* \\
& b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a \\
& ^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3
\end{aligned}$$

$$\begin{aligned}
& + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) \\
&)*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - \\
& 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - \\
& 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - \\
& 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6) \\
&)^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&)*d^2/((a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4)) \\
&)*\sqrt{-(810*a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&)*d^2 + 3*\sqrt{1/3}*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2 \\
&)*\sqrt{(6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4)}
\end{aligned}$$

$$\begin{aligned}
& 2 - 120a^6b^{14} + 45a^4b^{16} - 10a^2b^{18} + b^{20}) * ((5a^2b^2/(a^8d^4 - \\
& 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + \\
& 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2) * (-I\sqrt{3} + 1)/(-1/1458a^2b^2 \\
& / (a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2 / ((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) \\
& - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3 / (a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} \\
& - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10}) * a^2b^2 / ((a^2 - b^2)^{10}d^6))^{1/3} + 81*(-1/1458a^2b^2 / (a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2 / ((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3 / (a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10}) * a^2b^2 / ((a^2 - b^2)^{10}d^6))^{1/3} * (I\sqrt{3} + 1) + 54*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) / (a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2d^4 + 108*(5a^{16}b^2 - 8a^{14}b^4 - 30a^{12}b^6 + 95a^{10}b^8 - 95a^8b^{10} + 30a^6b^{12} + 8a^4b^{14} - 5a^2b^{16}) * ((5a^2b^2/(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2) * (-I\sqrt{3} + 1)/(-1/1458a^2b^2 / (a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2 / ((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3 / (a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10}) * a^2b^2 / ((a^2 - b^2)^{10}d^6))^{1/3} + 81*(-1/1458a^2b^2 / (a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2 / ((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3 / (a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3
\end{aligned}$$

$$\begin{aligned}
& - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30* \\
& a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5 \\
& *a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d \\
& ^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))*d^2)/((a^{20} - 10*a^{18}*b^2 \\
& + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} \\
& - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4))/((a^{10} - 5*a^8*b^ \\
& ^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2)) + 4*(a^{11}*b - 30*a^9* \\
& b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\cosh(d*x + c) + 4*(a \\
& ^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\sinh(\\
& d*x + c) + 4*\sqrt{2/3}*\sqrt{1/6}*((a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^ \\
& 3 + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^2*\sinh(d*x + c) + 3*(a^4 - 2* \\
& a^2*b^2 + b^4)*d*\cosh(d*x + c)*\sinh(d*x + c)^2 + (a^4 - 2*a^2*b^2 + b^4)*d* \\
& \sinh(d*x + c)^3)*\sqrt{-(810*a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - (a^{10} - \\
& 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}))*((5*a^2*b^2/(a^8*d^ \\
& 4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 \\
& + 17*a^4*b^4 + 5*a^2*b^6))^2/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 1 \\
& 0*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2* \\
& b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8 \\
& *d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{1 \\
& 0}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b \\
& ^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4 \\
&)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))^3 + 1/1458*(a \\
& ^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((\\
& a^2 - b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 \\
& + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^ \\
& 6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6 \\
& *b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2* \\
& d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4* \\
& b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6* \\
& d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 \\
& - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}*(I* \\
& \sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}d^2 - 5*a^8*b^ \\
& 2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))*d^2 + \\
& 3*\sqrt{1/3}*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}) \\
& *d^2*\sqrt{(6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2835972*a^8 \\
& *b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} - 10*a^{18} \\
& *b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8* \\
& b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20}))*((5*a^2*b^2/(a^8*d^
\end{aligned}$$

$$\begin{aligned}
& 4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9(5a^6b^2 \\
& + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 1 \\
& 0a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2)*(-I\sqrt{3} + 1)/(-1/1458a^2* \\
& b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8 \\
& *d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{1 \\
& 0*d^2 - 5a^8*b^2*d^2 + 10a^6*b^4*d^2 - 10a^4*b^6*d^2 + 5a^2*b^8*d^2 - b \\
& ^{10}*d^2)*(a^8*d^4 - 4a^6*b^2*d^4 + 6a^4*b^4*d^4 - 4a^2*b^6*d^4 + b^8*d^4 \\
&)) - 1/27*(5a^6*b^2 + 17a^4*b^4 + 5a^2*b^6)^3/(a^{10}*d^2 - 5a^8*b^2*d^2 \\
& + 10a^6*b^4*d^2 - 10a^4*b^6*d^2 + 5a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a \\
& ^{10} - 30a^8*b^2 - 700a^6*b^4 - 700a^4*b^6 - 30a^2*b^8 + b^{10})*a^2*b^2/(\\
& (a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458a^2*b^2/(a^{10}*d^6 - 5a^8*b^2*d^6 \\
& + 10a^6*b^4*d^6 - 10a^4*b^6*d^6 + 5a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5a^ \\
& 6*b^2 + 17a^4*b^4 + 5a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5a^8*b^2*d^2 + 10a^6 \\
& *b^4*d^2 - 10a^4*b^6*d^2 + 5a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4a^6*b^2* \\
& d^4 + 6a^4*b^4*d^4 - 4a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5a^6*b^2 + 17a^4* \\
& b^4 + 5a^2*b^6)^3/(a^{10}*d^2 - 5a^8*b^2*d^2 + 10a^6*b^4*d^2 - 10a^4*b^6* \\
& d^2 + 5a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30a^8*b^2 - 700a^6*b^4 \\
& - 700a^4*b^6 - 30a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I* \\
& sqrt{3} + 1) + 54*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10}d^2 - 5a^8b^ \\
& 2*d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2))^{2*d^4} \\
& + 108*(5a^{16}b^2 - 8a^{14}b^4 - 30a^{12}b^6 + 95a^{10}b^8 - 95a^8b^{10} + \\
& 30a^6b^{12} + 8a^4b^{14} - 5a^2b^{16})*((5a^2b^2/(a^8d^4 - 4a^6b^2d^4 \\
& + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4b^4 + 5 \\
& *a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5 \\
& *a^2b^8d^2 - b^{10}d^2)^2)*(-I\sqrt{3} + 1)/(-1/1458a^2*b^2/(a^{10}d^6 - 5 \\
& *a^8*b^2*d^6 + 10a^6*b^4*d^6 - 10a^4*b^6*d^6 + 5a^2*b^8*d^6 - b^{10}d^6) \\
& - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2 \\
& *d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 \\
& - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6* \\
& b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 \\
& - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8*b^2 \\
& - 700a^6*b^4 - 700a^4*b^6 - 30a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^ \\
& 6))^{(1/3)} + 81*(-1/1458a^2*b^2/(a^{10}d^6 - 5a^8*b^2*d^6 + 10a^6*b^4*d^6 \\
& - 10a^4*b^6*d^6 + 5a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5a^6*b^2 + 17a^4*b^ \\
& 4 + 5a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5a^8*b^2*d^2 + 10a^6*b^4*d^2 - 10a^4 \\
& *b^6*d^2 + 5a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4a^6*b^2*d^4 + 6a^4*b^4*d \\
& ^4 - 4a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5a^6*b^2 + 17a^4*b^4 + 5a^2*b^6)^ \\
& 3/(a^{10}d^2 - 5a^8*b^2*d^2 + 10a^6*b^4*d^2 - 10a^4*b^6*d^2 + 5a^2*b^8*d \\
& ^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8*b^2 - 700a^6*b^4 - 700a^4*b^6 -
\end{aligned}$$

$$\begin{aligned}
& 30a^2b^8 + b^{10})a^2b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}(I\sqrt{3} + 1) + 54 \\
& *(5a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4 \\
& 4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2))d^2)/((a^{20} - 10a^{18}b^2 \\
& ^2 + 45a^{16}b^4 - 120a^{14}b^6 + 210a^{12}b^8 - 252a^{10}b^{10} + 210a^8b^{12} \\
& - 120a^6b^{14} + 45a^4b^{16} - 10a^2b^{18} + b^{20})d^4))/((a^{10} - 5a^8 \\
& *b^2 + 10a^6b^4 - 10a^4b^6 + 5a^2b^8 - b^{10})d^2))*\log(-1/324*\sqrt{2/} \\
& 3)*\sqrt{1/6)*((7a^{17} + 11a^{16}b + 70a^{15}b^2 + 65a^{14}b^3 - 335a^{13}b^4 \\
& 4 - 385a^{12}b^5 + 391a^{11}b^6 + 572a^{10}b^7 + 130a^9b^8 - 130a^8b^9 \\
& - 572a^7b^{10} - 391a^6b^{11} + 385a^5b^{12} + 335a^4b^{13} - 65a^3b^{14} - \\
& 70a^2b^{15} - 11a*b^{16} - 7b^{17})*((5a^2b^2/(a^8d^4 - 4a^6b^2d^4 + 6 \\
& *a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4b^4 + 5a^2 \\
& *b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2 \\
& *b^8d^2 - b^{10}d^2)^2)*(-I\sqrt{3} + 1)/(-1/1458*a^2b^2/(a^{10}d^6 - 5a^8 \\
& *b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/ \\
& 162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 \\
& + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 - 4 \\
& *a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 \\
& + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10 \\
& *a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 70 \\
& 0a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10})a^2b^2/((a^2 - b^2)^{10}d^6))^{(1/3)} \\
& + 81*(-1/1458*a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10 \\
& *a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + \\
& 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6 \\
& *d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - \\
& 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a \\
& ^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - \\
& b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a \\
& ^2b^8 + b^{10})a^2b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}(I\sqrt{3} + 1) + 54*(5* \\
& a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 \\
& 2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2))^2d^5 - 18*(a^{15} + 2a^{14}b \\
& + 320a^{13}b^2 + 475a^{12}b^3 + 5754a^{11}b^4 + 7152a^{10}b^5 + 21880a^9* \\
& b^6 + 23465a^8b^7 + 23465a^7b^8 + 21880a^6b^9 + 7152a^5b^{10} + 5754* \\
& a^4b^{11} + 475a^3b^{12} + 320a^2b^{13} + 2a*b^{14} + b^{15})*((5a^2b^2/(a^8* \\
& d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b \\
& ^2 + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - \\
& 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2)*(-I\sqrt{3} + 1)/(-1/1458*a^ \\
& 2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8 \\
& ^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a \\
& ^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 -
\end{aligned}$$

$$\begin{aligned}
& 0*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1 \\
& /1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + \\
& 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2 \\
& *b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& ^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8 \\
& *b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + \\
& 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) \\
& *a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4 \\
& ^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\
& *d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*d^2/((a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - \\
& 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} \\
& + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4))*sqrt(-(810*a^6*b^2 + 2754*a^4*b^4 \\
& + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - \\
& b^{10})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2 \\
& ^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I* \\
& sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - \\
& 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 \\
& + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\
& ^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - \\
& - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/ \\
& (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 \\
& - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30 \\
& *a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/ \\
& (a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 \\
& - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 \\
& - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}* \\
& d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - \\
& 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10 \\
& *a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} \\
& - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 \\
& - b^2)^{10}*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2 \\
& *b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& ^8*d^2 - b^{10}*d^2))*d^2 + 3*sqrt(1/3)*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4 \\
& ^4*b^6 + 5*a^2*b^8 - b^{10})*d^2*sqrt((6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584 \\
& 360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480* \\
& a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 \\
& - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} +
\end{aligned}$$

$$\begin{aligned}
& b^{20} * ((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2 \\
& *d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2) * (-I* \\
& \text{sqrt}(3) + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - \\
& 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 \\
& + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\
& *d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 \\
& - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/ \\
& (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 \\
& - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30 \\
& *a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/ \\
& (a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 \\
& - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 \\
& - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}* \\
& d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - \\
& 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10 \\
& *a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} \\
& - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 \\
& - b^2)^{10}*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2 \\
& *b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^{10}*d^2))^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95 \\
& *a^{10}*b^8 - 95*a^8*b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2 \\
& /((a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(\\
& 5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4 \\
& *d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\text{sqrt}(3) + 1)/(-1/ \\
& 1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + \\
& 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 \\
& *b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 \\
& + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8 \\
& *b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + \\
& 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})* \\
& a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8 \\
& *b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/ \\
& 162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4 \\
& *a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 \\
& + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10 \\
& *a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 70
\end{aligned}$$

$$\begin{aligned}
& 0*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) * a^2*b^2 / ((a^2 - b^2)^{10*d^6})^{1/3} * (I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) / (a^{10*d^2} - \\
& 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2} \\
&)) * d^2 / ((a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - \\
& 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20}) * d^4) \\
&)) / ((a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}) * d^2) \\
& + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11}) * \cosh(d*x + c) \\
& + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11}) * \sinh(d*x + c) \\
& - 4*\sqrt{2/3}*\sqrt{1/6}*((a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^3 + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^2 \\
& * \sinh(d*x + c) + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)*\sinh(d*x + c)^2 \\
& + (a^4 - 2*a^2*b^2 + b^4)*d*\sinh(d*x + c)^3)*\sqrt{-(810*a^6*b^2 + 2754*a^4 \\
& * b^4 + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 \\
& - b^{10})) * ((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) \\
& + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^2) * \\
& (-I*\sqrt{3} + 1) / (-1/1458*a^2*b^2/(a^{10*d^6} - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10*d^6}) \\
& - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 / ((a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 \\
& + 5*a^2*b^8*d^2 - b^{10*d^2})* (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) \\
& - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3 / (a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^3 \\
& + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) * a^2*b^2 / ((a^2 - b^2)^{10*d^6})^{1/3} + 81*(-1/1458*a^2*b^2 \\
& / (a^{10*d^6} - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10*d^6}) \\
& - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 / ((a^{10} * d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10} * d^2) \\
& * (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) \\
&) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3 / (a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^3 \\
& + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) * a^2*b^2 / ((\\
& a^2 - b^2)^{10*d^6})^{1/3} * (I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) / (a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2}) * d^2 \\
& - 3*\sqrt{1/3}*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}) * d^2 * \sqrt{((6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1 \\
& 584360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 64 \\
& 80*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} \\
& - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} \\
& + b^{20})) * ((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)
\end{aligned}$$

$$\begin{aligned}
& d^4 + b^8 d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}d^2 - 5*a^8 \\
& *b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^2)*(- \\
& I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 \\
& - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b \\
& ^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^ \\
& 4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4* \\
& d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) \\
& ^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8* \\
& d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - \\
& 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458*a^2*b \\
& ^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8* \\
& d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10} \\
& *d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^ \\
& 10*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) \\
&) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + \\
& 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^ \\
& 10 - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((\\
& a^2 - b^2)^{10}d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5* \\
& a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^ \\
& 2*b^8*d^2 - b^{10}d^2)^2*d^4 + 108*(5*a^{16}b^2 - 8*a^{14}b^4 - 30*a^{12}b^6 + \\
& 95*a^{10}b^8 - 95*a^8b^{10} + 30*a^6b^{12} + 8*a^4b^{14} - 5*a^2b^{16})*((5*a^2 \\
& *b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + \\
& 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6 \\
& *b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^2)*(-I*\sqrt{3} + 1)/(- \\
& 1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 \\
& + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a \\
& ^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2 \\
& *b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d \\
& ^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5* \\
& a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 \\
& + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{1 \\
& 0})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}d^6 - 5* \\
& a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - \\
& 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2* \\
& d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 \\
& - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b \\
& ^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - \\
& 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - \\
& 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6)
\end{aligned}$$

$$\begin{aligned}
& *d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6 \\
&)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 \\
& - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{1/3} + 81*(-1/1458*a^2* \\
& b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8 \\
& *d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10} \\
& d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2) \\
& *(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4 \\
&)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} \\
& - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/(\\
& (a^2 - b^2)^{10}d^6))^{1/3}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5 \\
& *a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a \\
& ^2*b^8*d^2 - b^{10}d^2))*d^3 - 324*(2*a^{12}*b + 53*a^{11}*b^2 + 20*a^{10}*b^3 + 8 \\
& 39*a^9*b^4 - 262*a^8*b^5 + 1055*a^7*b^6 - 1055*a^6*b^7 + 262*a^5*b^8 - 839* \\
& a^4*b^9 - 20*a^3*b^{10} - 53*a^2*b^{11} - 2*a*b^{12})*d - 3*sqrt(1/3)*((7*a^{17} + \\
& 11*a^{16}*b + 70*a^{15}*b^2 + 65*a^{14}*b^3 - 335*a^{13}*b^4 - 385*a^{12}*b^5 + 391*a \\
& ^{11}*b^6 + 572*a^{10}*b^7 + 130*a^9*b^8 - 130*a^8*b^9 - 572*a^7*b^{10} - 391*a^6 \\
& *b^{11} + 385*a^5*b^{12} + 335*a^4*b^{13} - 65*a^3*b^{14} - 70*a^2*b^{15} - 11*a*b^{16} \\
& - 7*b^{17})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6 \\
& *d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}d^2 - 5*a^ \\
& 8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^2)* \\
& (-I*sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^ \\
& 6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4* \\
& b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a \\
& ^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4 \\
& *d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6 \\
&)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 \\
& - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{1/3} + 81*(-1/1458*a^2* \\
& b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8 \\
& *d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10} \\
& d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2) \\
& *(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4 \\
&)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} \\
& - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/(\\
& (a^2 - b^2)^{10}d^6))^{1/3}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5 \\
& *a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a
\end{aligned}$$

$$\begin{aligned}
&^2*b^8*d^2 - b^{10}*d^2))*d^5 + 18*(a^{15} + 2*a^{14}*b + 5*a^{13}*b^2 - 20*a^{12}*b^3 \\
&- 42*a^{11}*b^4 + 69*a^{10}*b^5 + 100*a^9*b^6 - 115*a^8*b^7 - 115*a^7*b^8 + 1 \\
&00*a^6*b^9 + 69*a^5*b^{10} - 42*a^4*b^{11} - 20*a^3*b^{12} + 5*a^2*b^{13} + 2*a*b^{14} \\
&4 + b^{15})*d^3)*\text{sqrt}((6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2 \\
&835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} \\
&- 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} \\
&+ 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*((5*a^2*b^2 \\
&/ (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9* \\
&(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2 / (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
&- 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2) * (-I*\text{sqrt}(3) + 1) / (-1 \\
&/ 1458*a^2*b^2 / (a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + \\
&5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2 \\
&*b^2 / ((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 \\
&- b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) \\
&+ b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3 / (a^{10}*d^2 - 5*a^8*b^2*d^2 \\
&+ 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + \\
&1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10}) \\
&*a^2*b^2 / ((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2 / (a^{10}*d^6 - 5*a^8*b^2*d^6 \\
&+ 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5 \\
&/ 162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 / ((a^{10}*d^2 - 5*a^8*b^2*d^2 \\
&+ 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - \\
&4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 \\
&+ 17*a^4*b^4 + 5*a^2*b^6)^3 / (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 1 \\
&0*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 7 \\
&00*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2 / ((a^2 - b^2)^{10}*d^6)) \\
&^{(1/3)} * (I*\text{sqrt}(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) / (a^{10}*d^2 \\
&- 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&)^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95*a^{10}*b^8 - 95*a^8*b^{10} \\
&+ 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2 / (a^8*d^4 - 4*a^6*b^2*d^4 \\
&+ 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2 \\
&/ (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&- 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2) * (-I*\text{sqrt}(3) + 1) / (-1/1458*a^2*b^2 / (a^{10} \\
&*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - \\
&5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 / ((a^{10}*d^2 - 5*a^8*b^2*d^2 \\
&+ 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/ \\
&27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3 / (a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
&- 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 3 \\
&0*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2 / ((a^2 -
\end{aligned}$$

$$\begin{aligned}
& b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))*d^2)/((a^{20} - 10*a^{18}b^2 + 45*a^{16}b^4 - 120*a^{14}b^6 + 210*a^{12}b^8 - 252*a^{10}b^{10} + 210*a^8b^{12} - 120*a^6b^{14} + 45*a^4b^{16} - 10*a^2b^{18} + b^{20})*d^4)))*sqrt(-(810*a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^2)*(-I*sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}d^6))^{(1/3)}*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}d^2))*d^2 - 3*sqrt(1/3)*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2*sqrt((6480*a^{14}b^2 + 179820*a^{12}b^4 + 1584360*a^{10}b^6 + 2835972*a^8b^8 + 1584360*a^6b^{10} + 179820*a^4b^{12} + 6480*a^2b^{14} - (a^{20} - 10*a^{18}b^2 + 45*a^{16}b^4 - 120*a^{14}b^6 + 210*a^{12}b^8 - 252*a^{10}b^{10} + 210*a^8b^{12} - 120*a^6b^{14} + 45*a^4b^{16} - 10*a^2b^{18} + b^{20}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6
\end{aligned}$$

$$\begin{aligned}
& *a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95*a^{10}*b^8 - 95*a^8*b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3}
\end{aligned}$$

$$\begin{aligned}
& 2*b^2/((a^2 - b^2)^{10*d^6})^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})*d^2/((a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4))/((a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2)) + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\cosh(d*x + c) + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\sinh(d*x + c) + 4*\sqrt{2/3}*\sqrt{1/6}*((a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^3 + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^2*\sinh(d*x + c) + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)*\sinh(d*x + c)^2 + (a^4 - 2*a^2*b^2 + b^4)*d*\sinh(d*x + c)^3)*\sqrt{-(810*a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - (a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10*d^6} - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10*d^6}) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10*d^6})^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10*d^6} - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10*d^6}) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10*d^6})^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10*d^2} - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10*d^2})*d^2 - 3*\sqrt{1/3}*(a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2*\sqrt{(6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*
\end{aligned}$$

$$\begin{aligned}
&^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\
&*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*d^2)/((a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - \\
&120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} \\
&+ 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4))/((a^{10} - 5*a^8*b^2 + 10*a^6*b^4 \\
&- 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2))*\log(-1/324*\sqrt{2/3}*\sqrt{1/6}*((7*a \\
&^{17} + 11*a^{16}*b + 70*a^{15}*b^2 + 65*a^{14}*b^3 - 335*a^{13}*b^4 - 385*a^{12}*b^5 + \\
&391*a^{11}*b^6 + 572*a^{10}*b^7 + 130*a^9*b^8 - 130*a^8*b^9 - 572*a^7*b^{10} - 3 \\
&91*a^6*b^{11} + 385*a^5*b^{12} + 335*a^4*b^{13} - 65*a^3*b^{14} - 70*a^2*b^{15} - 11* \\
&a*b^{16} - 7*b^{17}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a \\
&^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 \\
&- 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2 \\
&)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6* \\
&b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 1 \\
&7*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
&- 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a \\
&^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a \\
&^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a \\
&^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^ \\
&4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + 81*(-1/145 \\
&8*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a \\
&^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2 \\
&/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d \\
&^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b \\
&^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^ \\
&2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1 \\
&458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2 \\
&*b^2/((a^2 - b^2)^{10}*d^6))^{1/3}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b \\
&^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 \\
&+ 5*a^2*b^8*d^2 - b^{10}*d^2))^2*d^5 - 18*(a^{15} + 2*a^{14}*b + 320*a^{13}*b^2 + \\
&475*a^{12}*b^3 + 5754*a^{11}*b^4 + 7152*a^{10}*b^5 + 21880*a^9*b^6 + 23465*a^8*b^ \\
&7 + 23465*a^7*b^8 + 21880*a^6*b^9 + 7152*a^5*b^{10} + 5754*a^4*b^{11} + 475*a^3 \\
&*b^{12} + 320*a^2*b^{13} + 2*a*b^{14} + b^{15}))*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^ \\
&4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + \\
&5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + \\
&5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - \\
&5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) \\
&- 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^ \\
&2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^ \\
&4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6
\end{aligned}$$

$$\begin{aligned}
& *b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
& - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 \\
& - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d \\
& ^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 \\
& - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b \\
& ^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^ \\
& 4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4* \\
& d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) \\
& ^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8* \\
& d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - \\
& 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 5 \\
& 4*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b \\
& ^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*d^3 - 324*(2*a^{12}*b + \\
& 53*a^{11}*b^2 + 20*a^{10}*b^3 + 839*a^9*b^4 - 262*a^8*b^5 + 1055*a^7*b^6 - 1055 \\
& *a^6*b^7 + 262*a^5*b^8 - 839*a^4*b^9 - 20*a^3*b^{10} - 53*a^2*b^{11} - 2*a*b^{12} \\
&)*d - 3*sqrt(1/3)*((7*a^{17} + 11*a^{16}*b + 70*a^{15}*b^2 + 65*a^{14}*b^3 - 335*a^ \\
& 13*b^4 - 385*a^{12}*b^5 + 391*a^{11}*b^6 + 572*a^{10}*b^7 + 130*a^9*b^8 - 130*a^8 \\
& *b^9 - 572*a^7*b^{10} - 391*a^6*b^{11} + 385*a^5*b^{12} + 335*a^4*b^{13} - 65*a^3*b \\
& ^{14} - 70*a^2*b^{15} - 11*a*b^{16} - 7*b^{17})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^ \\
& 4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + \\
& 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + \\
& 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*sqrt(3) + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - \\
& 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) \\
& - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^ \\
& 2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^ \\
& 4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6 \\
& *b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
& - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 \\
& - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d \\
& ^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 \\
& - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b \\
& ^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^ \\
& 4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4* \\
& d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6) \\
& ^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8* \\
& d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - \\
& 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 5 \\
& 4*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b \\
& ^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*d^5 + 18*(a^{15} + 2*a^{1
\end{aligned}$$

$$\begin{aligned}
& 4*b + 5*a^{13}*b^2 - 20*a^{12}*b^3 - 42*a^{11}*b^4 + 69*a^{10}*b^5 + 100*a^9*b^6 - \\
& 115*a^8*b^7 - 115*a^7*b^8 + 100*a^6*b^9 + 69*a^5*b^{10} - 42*a^4*b^{11} - 20*a^3*b^{12} + 5*a^2*b^{13} + 2*a*b^{14} + b^{15})*d^3)*\sqrt{(6480*a^{14}*b^2 + 179820*a^{12}*b^4 + 1584360*a^{10}*b^6 + 2835972*a^8*b^8 + 1584360*a^6*b^{10} + 179820*a^4*b^{12} + 6480*a^2*b^{14} - (a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95*a^{10}*b^8 - 95*a^8*b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{1/3} + 81*(-1/1458*a^2*b^2/(a^{10}
\end{aligned}$$

$$\begin{aligned}
& 0*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b \\
& \wedge{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^10*d^2 - \\
& 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2) \\
& *(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/2 \\
& 7*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6 \\
& *b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^3 + 1/1458*(a^10 - 30 \\
& *a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^10)*a^2*b^2/((a^2 - b \\
& ^2)^10*d^6))^(1/3)*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6 \\
&)/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d \\
& ^2 - b^10*d^2))*d^2/((a^20 - 10*a^18*b^2 + 45*a^16*b^4 - 120*a^14*b^6 + 21 \\
& 0*a^12*b^8 - 252*a^10*b^10 + 210*a^8*b^12 - 120*a^6*b^14 + 45*a^4*b^16 - 10 \\
& *a^2*b^18 + b^20)*d^4))*sqrt(-(810*a^6*b^2 + 2754*a^4*b^4 + 810*a^2*b^6 - \\
& (a^10 - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^10))*((5*a^2*b^2 \\
& / (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5 \\
& *a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4 \\
& *d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^2)*(-I*sqrt(3) + 1)/(-1/1 \\
& 458*a^2*b^2/(a^10*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5 \\
& *a^2*b^8*d^6 - b^10*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b \\
& ^2/((a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^10*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + \\
& b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^10*d^2 - 5*a^8* \\
& b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^3 + 1 \\
& /1458*(a^10 - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^10)*a \\
& ^2*b^2/((a^2 - b^2)^10*d^6))^(1/3) + 81*(-1/1458*a^2*b^2/(a^10*d^6 - 5*a^8* \\
& b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^10*d^6) - 5/1 \\
& 62*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^10*d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)*(a^8*d^4 - 4* \\
& a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + \\
& 17*a^4*b^4 + 5*a^2*b^6)^3/(a^10*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10* \\
& a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2)^3 + 1/1458*(a^10 - 30*a^8*b^2 - 700 \\
& *a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^10)*a^2*b^2/((a^2 - b^2)^10*d^6))^(\\
& 1/3)*(I*sqrt(3) + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^10*d^2 - \\
& 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^10*d^2) \\
&)*d^2 - 3*sqrt(1/3)*(a^10 - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 \\
& - b^10)*d^2*sqrt((6480*a^14*b^2 + 179820*a^12*b^4 + 1584360*a^10*b^6 + 283 \\
& 5972*a^8*b^8 + 1584360*a^6*b^10 + 179820*a^4*b^12 + 6480*a^2*b^14 - (a^20 - \\
& 10*a^18*b^2 + 45*a^16*b^4 - 120*a^14*b^6 + 210*a^12*b^8 - 252*a^10*b^10 + \\
& 210*a^8*b^12 - 120*a^6*b^14 + 45*a^4*b^16 - 10*a^2*b^18 + b^20))*((5*a^2*b^2 \\
& / (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5
\end{aligned}$$

$$\begin{aligned}
& *a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4 \\
& *d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2*(-I*\sqrt{3} + 1)/(-1/1 \\
& 458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5 \\
& *a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b \\
& ^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8 \\
& *d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + \\
& b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8* \\
& b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1 \\
& /1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a \\
& ^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8* \\
& b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/1 \\
& 62*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 \\
& + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4* \\
& a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + \\
& 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10* \\
& a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700 \\
& *a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(\\
& 1/3)}*(I*\sqrt{3} + 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - \\
& 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2) \\
&)^2*d^4 + 108*(5*a^{16}*b^2 - 8*a^{14}*b^4 - 30*a^{12}*b^6 + 95*a^{10}*b^8 - 95*a^8 \\
& *b^{10} + 30*a^6*b^{12} + 8*a^4*b^{14} - 5*a^2*b^{16})*((5*a^2*b^2/(a^8*d^4 - 4*a^6 \\
& *b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4 \\
& *b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6 \\
& *d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10} \\
& *d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{ \\
& 10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5 \\
& *a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)* \\
& (a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27 \\
& *(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6* \\
& b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30* \\
& a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^ \\
& 2)^{10}*d^6))^{(1/3)} + 81*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6* \\
& b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 1 \\
& 7*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 \\
& - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a \\
& ^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a \\
& ^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a \\
& ^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^ \\
& 4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^{(1/3)}*(I*\sqrt{3} +
\end{aligned}$$

$$\begin{aligned}
& 1) + 54*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)/(a^{20} - 10*a^{18}*b^2 + 45*a^{16}*b^4 - 120*a^{14}*b^6 + 210*a^{12}*b^8 - 252*a^{10}*b^{10} + 210*a^8*b^{12} - 120*a^6*b^{14} + 45*a^4*b^{16} - 10*a^2*b^{18} + b^{20})*d^4)/((a^{10} - 5*a^8*b^2 + 10*a^6*b^4 - 10*a^4*b^6 + 5*a^2*b^8 - b^{10})*d^2)) + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\cosh(d*x + c) + 4*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\sinh(d*x + c) + a^3 + a^2*b - a*b^2 - b^3 - 9*(a^3 + 3*a^2*b + 3*a*b^2 + b^3)*\cosh(d*x + c)^2 + 3*(5*(a^3 - a^2*b - a*b^2 + b^3)*\cosh(d*x + c)^4 - 3*a^3 - 9*a^2*b - 9*a*b^2 - 3*b^3 - 18*(a^3 - 3*a^2*b + 3*a*b^2 - b^3)*\cosh(d*x + c)^2)*\sinh(d*x + c)^2 + 24*((a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^3 + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)^2*\sinh(d*x + c) + 3*(a^4 - 2*a^2*b^2 + b^4)*d*\cosh(d*x + c)*\sinh(d*x + c)^2 + (a^4 - 2*a^2*b^2 + b^4)*d*\sinh(d*x + c)^3)*\sqrt{-1/162*(5*a^2*b^2/(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4) + 9*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^2/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 6*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^(1/3) - 1/2*(-1/1458*a^2*b^2/(a^{10}*d^6 - 5*a^8*b^2*d^6 + 10*a^6*b^4*d^6 - 10*a^4*b^6*d^6 + 5*a^2*b^8*d^6 - b^{10}*d^6) - 5/162*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)*a^2*b^2/((a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)*(a^8*d^4 - 4*a^6*b^2*d^4 + 6*a^4*b^4*d^4 - 4*a^2*b^6*d^4 + b^8*d^4)) - 1/27*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)^3/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2)^3 + 1/1458*(a^{10} - 30*a^8*b^2 - 700*a^6*b^4 - 700*a^4*b^6 - 30*a^2*b^8 + b^{10})*a^2*b^2/((a^2 - b^2)^{10}*d^6))^(1/3)*(I*\sqrt{3} + 1) - 1/3*(5*a^6*b^2 + 17*a^4*b^4 + 5*a^2*b^6)/(a^{10}*d^2 - 5*a^8*b^2*d^2 + 10*a^6*b^4*d^2 - 10*a^4*b^6*d^2 + 5*a^2*b^8*d^2 - b^{10}*d^2))*\log(2*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\cosh(d*x + c) + 2*(a^{11}*b - 30*a^9*b^3 - 700*a^7*b^5 - 700*a^5*b^7 - 30*a^3*b^9 + a*b^{11})*\sinh(d*x + c) + 1/54*((7*a^{17} + 11*a^{16}*b + 70*a^{15}*b^2 + 65*a^{14}*b^3 - 335*a^{13}*b^4 - 385*a^{12}*b^5 + 391*a^{11}*b^6 + 572*a^{10}*b^7 + 130*a^9*b^8 - 130*a^8*b^9 - 572*a^7*b^{10} - 391*a^6*b^{11} + 385*a^5*b^{12} + 335*a^4*b^{13} - 65*a^3*b^{14} - 7
\end{aligned}$$

$$\begin{aligned}
& b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10})*a^2b^2/((a^2 - b^2)^{10}d^6)^{(1/3)}*(I*\sqrt{3} + 1) + 54*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2))*d^3 + 324*(a^{12}b - 56a^{11}b^2 - 110a^{10}b^3 - 749a^9b^4 - 1838a^8b^5 + 1045a^7b^6 - 1045a^6b^7 + 1838a^5b^8 + 749a^4b^9 + 110a^3b^{10} + 56a^2b^{11} - ab^{12})*d)*\sqrt{-1/162*(5a^2b^2/(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10})*a^2b^2/((a^2 - b^2)^{10}d^6)^{(1/3)} - 1/2*(-1/1458*a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10})*a^2b^2/((a^2 - b^2)^{10}d^6)^{(1/3)}*(I*\sqrt{3} + 1) - 1/3*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)) - 24*((a^4 - 2a^2b^2 + b^4)*d*cosh(dx + c)^3 + 3*(a^4 - 2a^2b^2 + b^4)*d*cosh(dx + c)^2*sinh(dx + c) + 3*(a^4 - 2a^2b^2 + b^4)*d*cosh(dx + c)*sinh(dx + c)^2 + (a^4 - 2a^2b^2 + b^4)*d*sinh(dx + c)^3)*\sqrt{-1/162*(5a^2b^2/(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)*a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)*(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3}
\end{aligned}$$

$$\begin{aligned}
& b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^3 + 1/1458 (a^{10} - 30 a^8 b^2 - 700 a^6 b^4 - 700 a^4 b^6 - 30 a^2 b^8 + b^{10}) a^2 b^2 / ((a^2 - b^2)^{10} d^6)^{(1/3)} - 1/2 * (-1/1458 a^2 b^2 / (a^{10} d^6 - 5 a^8 b^2 d^6 + 10 a^6 b^4 d^6 - 10 a^4 b^6 d^6 + 5 a^2 b^8 d^6 - b^{10} d^6) - 5/162 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) a^2 b^2 / ((a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2) * (a^8 d^4 - 4 a^6 b^2 d^4 + 6 a^4 b^4 d^4 - 4 a^2 b^6 d^4 + b^8 d^4)) - 1/27 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6)^3 / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^3 + 1/1458 (a^{10} - 30 a^8 b^2 - 700 a^6 b^4 - 700 a^4 b^6 - 30 a^2 b^8 + b^{10}) a^2 b^2 / ((a^2 - b^2)^{10} d^6)^{(1/3)} * (I * \sqrt{3}) + 1) - 1/3 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2) * \log(2 * (a^{11} b - 30 a^9 b^3 - 700 a^7 b^5 - 700 a^5 b^7 - 30 a^3 b^9 + a b^{11}) * \cosh(d * x + c) + 2 * (a^{11} b - 30 a^9 b^3 - 700 a^7 b^5 - 700 a^5 b^7 - 30 a^3 b^9 + a b^{11}) * \sinh(d * x + c) - 1/54 * ((7 a^{17} + 11 a^{16} b + 70 a^{15} b^2 + 65 a^{14} b^3 - 335 a^{13} b^4 - 385 a^{12} b^5 + 391 a^{11} b^6 + 572 a^{10} b^7 + 130 a^9 b^8 - 130 a^8 b^9 - 572 a^7 b^{10} - 391 a^6 b^{11} + 385 a^5 b^{12} + 335 a^4 b^{13} - 65 a^3 b^{14} - 70 a^2 b^{15} - 11 a b^{16} - 7 b^{17}) * ((5 a^2 b^2 / (a^8 d^4 - 4 a^6 b^2 d^4 + 6 a^4 b^4 d^4 - 4 a^2 b^6 d^4 + b^8 d^4) + 9 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6)^2 / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^2) * (-I * \sqrt{3}) + 1) / (-1/1458 a^2 b^2 / (a^{10} d^6 - 5 a^8 b^2 d^6 + 10 a^6 b^4 d^6 - 10 a^4 b^6 d^6 + 5 a^2 b^8 d^6 - b^{10} d^6) - 5/162 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) a^2 b^2 / ((a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2) * (a^8 d^4 - 4 a^6 b^2 d^4 + 6 a^4 b^4 d^4 - 4 a^2 b^6 d^4 + b^8 d^4)) - 1/27 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6)^3 / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^3 + 1/1458 (a^{10} - 30 a^8 b^2 - 700 a^6 b^4 - 700 a^4 b^6 - 30 a^2 b^8 + b^{10}) a^2 b^2 / ((a^2 - b^2)^{10} d^6)^{(1/3)} + 81 * (-1/1458 a^2 b^2 / (a^{10} d^6 - 5 a^8 b^2 d^6 + 10 a^6 b^4 d^6 - 10 a^4 b^6 d^6 + 5 a^2 b^8 d^6 - b^{10} d^6) - 5/162 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) a^2 b^2 / ((a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2) * (a^8 d^4 - 4 a^6 b^2 d^4 + 6 a^4 b^4 d^4 - 4 a^2 b^6 d^4 + b^8 d^4)) - 1/27 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6)^3 / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^3 + 1/1458 (a^{10} - 30 a^8 b^2 - 700 a^6 b^4 - 700 a^4 b^6 - 30 a^2 b^8 + b^{10}) a^2 b^2 / ((a^2 - b^2)^{10} d^6)^{(1/3)} * (I * \sqrt{3}) + 1) + 54 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^2 d^5 - 18 * (a^{15} + 2 a^{14} b + 320 a^{13} b^2 + 475 a^{12} b^3 + 5754 a^{11} b^4 + 7152 a^{10} b^5
\end{aligned}$$

$$\begin{aligned}
& + 21880a^9b^6 + 23465a^8b^7 + 23465a^7b^8 + 21880a^6b^9 + 7152a^5 \\
& *b^{10} + 5754a^4b^{11} + 475a^3b^{12} + 320a^2b^{13} + 2a*b^{14} + b^{15}) * ((5a \\
& a^2b^2/(a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) \\
& + 9*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a \\
& a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^2) * (-I*\sqrt{3} + 1 \\
&)/(-1/1458a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d \\
& d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6 \\
&) * a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a \\
& a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6 \\
& 6d^4 + b^8d^4)) - 1/27*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - \\
& 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2 \\
&)^3 + 1/1458*(a^{10} - 30a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + \\
& b^{10}) * a^2b^2/((a^2 - b^2)^{10}d^6))^{(1/3)} + 81*(-1/1458a^2b^2/(a^{10}d^6 - \\
& 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6 \\
&) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2/((a^{10}d^2 - 5a^8b \\
& ^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d \\
& ^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27*(5a^6 \\
& 6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 \\
& 2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a^8b^ \\
& 2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10}) * a^2b^2/((a^2 - b^2)^{10} \\
& d^6))^{(1/3)} * (I*\sqrt{3} + 1) + 54*(5a^6b^2 + 17a^4b^4 + 5a^2b^6)/(a^{10} \\
& *d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10} \\
& 10d^2)) * d^3 + 324*(a^{12}b - 56a^{11}b^2 - 110a^{10}b^3 - 749a^9b^4 - 183 \\
& 8a^8b^5 + 1045a^7b^6 - 1045a^6b^7 + 1838a^5b^8 + 749a^4b^9 + 110a^3 \\
& a^3b^{10} + 56a^2b^{11} - a*b^{12}) * d) * \sqrt{-1/162*(5a^2b^2/(a^8d^4 - 4a^6 \\
& *b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4) + 9*(5a^6b^2 + 17a^4 \\
& *b^4 + 5a^2b^6)^2/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6 \\
& *d^2 + 5a^2b^8d^2 - b^{10}d^2)^2) * (-I*\sqrt{3} + 1)/(-1/1458a^2b^2/(a^{10} \\
& *d^6 - 5a^8b^2d^6 + 10a^6b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10} \\
& 10d^6) - 5/162*(5a^6b^2 + 17a^4b^4 + 5a^2b^6) * a^2b^2/((a^{10}d^2 - 5 \\
& *a^8b^2d^2 + 10a^6b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * \\
& (a^8d^4 - 4a^6b^2d^4 + 6a^4b^4d^4 - 4a^2b^6d^4 + b^8d^4)) - 1/27 \\
& *(5a^6b^2 + 17a^4b^4 + 5a^2b^6)^3/(a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4 \\
& b^4d^2 - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2)^3 + 1/1458*(a^{10} - 30a \\
& a^8b^2 - 700a^6b^4 - 700a^4b^6 - 30a^2b^8 + b^{10}) * a^2b^2/((a^2 - b^ \\
& 2)^{10}d^6))^{(1/3)} - 1/2*(-1/1458a^2b^2/(a^{10}d^6 - 5a^8b^2d^6 + 10a^6 \\
& *b^4d^6 - 10a^4b^6d^6 + 5a^2b^8d^6 - b^{10}d^6) - 5/162*(5a^6b^2 + \\
& 17a^4b^4 + 5a^2b^6) * a^2b^2/((a^{10}d^2 - 5a^8b^2d^2 + 10a^6b^4d^2 \\
& - 10a^4b^6d^2 + 5a^2b^8d^2 - b^{10}d^2) * (a^8d^4 - 4a^6b^2d^4 + 6
\end{aligned}$$

$$\begin{aligned}
 & a^4 b^4 d^4 - 4 a^2 b^6 d^4 + b^8 d^4) - 1/27 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6)^3 / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2)^3 + 1/1458 * (a^{10} - 30 a^8 b^2 - 700 a^6 b^4 - 700 a^4 b^6 - 30 a^2 b^8 + b^{10}) * a^2 b^2 / ((a^2 - b^2)^{10} d^6)^{(1/3)} * (I * \text{sqrt}(3) + 1) - 1/3 * (5 a^6 b^2 + 17 a^4 b^4 + 5 a^2 b^6) / (a^{10} d^2 - 5 a^8 b^2 d^2 + 10 a^6 b^4 d^2 - 10 a^4 b^6 d^2 + 5 a^2 b^8 d^2 - b^{10} d^2) + 6 * ((a^3 - a^2 b - a b^2 + b^3) * \text{cosh}(d x + c)^5 - 6 * (a^3 - 3 a^2 b + 3 a b^2 - b^3) * \text{cosh}(d x + c)^3 - 3 * (a^3 + 3 a^2 b + 3 a b^2 + b^3) * \text{cosh}(d x + c)) * \text{sinh}(d x + c) / ((a^4 - 2 a^2 b^2 + b^4) * d * \text{cosh}(d x + c)^3 + 3 * (a^4 - 2 a^2 b^2 + b^4) * d * \text{cosh}(d x + c)^2 * \text{sinh}(d x + c) + 3 * (a^4 - 2 a^2 b^2 + b^4) * d * \text{cosh}(d x + c) * \text{sinh}(d x + c)^2 + (a^4 - 2 a^2 b^2 + b^4) * d * \text{sinh}(d x + c)^3)
 \end{aligned}$$

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 1.71104 (sec), size = 40923 ,normalized size = 1948.71

Too large to display

[In] integrate(sinh(d*x+c)/(a+b*tanh(d*x+c)^3),x, algorithm=""fricas"")

[Out]

$$\begin{aligned}
 & -1/6 * (\text{sqrt}(2/3) * \text{sqrt}(1/2) * ((a^2 - b^2) * d * \text{cosh}(d x + c) + (a^2 - b^2) * d * \text{sinh}(d x + c)) * \text{sqrt}(-(108 a^2 b^2 + 54 b^4 - (a^6 - 3 a^4 b^2 + 3 a^2 b^4 - b^6) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2) * (-I * \text{sqrt}(3) + 1) / (-1/1458 * b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 * b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I * \text{sqrt}
 \end{aligned}$$

$$\begin{aligned}
& (3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - \\
& b^6*d^2))*d^2 + 3*sqrt(1/3)*(a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2*sqrt((4 \\
& 32*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^12 - 6*a^10*b^2 + 1 \\
& 5*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12))*((b^2/(a^6*d^4 - 3 \\
& *a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - \\
& 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*sqrt(3) + 1)/(-1/1458*b^2/(\\
& a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + \\
& b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3* \\
& a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 \\
& - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 2 \\
& 4*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8* \\
& d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4) \\
& *b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4* \\
& b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3 \\
& *a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^ \\
& 2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*sqrt(3) + 1) + 18*(2*a^2 \\
& *b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*d^4 + 36 \\
& *(2*a^8*b^2 - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^10))*((b^2/(a^6*d^4 - 3*a^ \\
& 4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^ \\
& 4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8 \\
& *d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4) \\
&)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4 \\
& *b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - \\
& 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^ \\
& 2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*sqrt(3) + 1) + 18*(2*a^2*b^ \\
& 2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2)/((a^12 - \\
& 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12)*d^4 \\
&))/((a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2))*log(1/36*sqrt(2/3)*sqrt(1/2) \\
& *((4*a^12 + 3*a^11*b + a^10*b^2 - 3*a^9*b^3 - 26*a^8*b^4 - 9*a^7*b^5 + 32*a^ \\
& 6*b^6 + 15*a^5*b^7 - 10*a^4*b^8 - 6*a^3*b^9 - a^2*b^10))*((b^2/(a^6*d^4 - 3 \\
& *a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - \\
& 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*sqrt(3) + 1)/(-1/1458*b^2/(\\
& a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + \\
& b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*
\end{aligned}$$

$$\begin{aligned}
& a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 \\
& - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 2 \\
& 4 a^2 b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 * b^2 / (a^8 * \\
& d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) \\
& * b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 * \\
& b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 \\
& a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 \\
& b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 * (2 a^2 \\
& * b^2 + b^4) / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2 * d^5 - 6 * \\
& (a^{10} + a^9 b + 71 a^8 b^2 + 50 a^7 b^3 + 267 a^6 b^4 + 141 a^5 b^5 + 140 a^4 \\
& b^6 + 50 a^3 b^7 + 7 a^2 b^8 + a b^9) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 \\
& a^2 b^4 d^4 - b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 d^2 + \\
& 3 a^2 b^4 d^2 - b^6 d^2))^2 * (-I * \text{sqrt}(3) + 1) / (-1/1458 * b^2 / (a^8 d^6 - 3 a^6 * \\
& b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 \\
& - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 \\
& b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 \\
& + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) \\
& * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 * b^2 / (a^8 d^6 - 3 a^6 * b^2 * \\
& d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 - \\
& 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 * \\
& b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 \\
& a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) * b^2 \\
& / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 * (2 a^2 b^2 + b^4) / (a^6 \\
& * d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) * d^3 - 36 * (2 a^7 b + 18 a^6 \\
& * b^2 + 6 a^5 b^3 + 63 a^4 b^4 - 9 a^3 b^5 + a b^7) * d + 3 * \text{sqrt}(1/3) * ((4 a^{12} \\
& + 3 a^{11} b + a^{10} b^2 - 3 a^9 b^3 - 26 a^8 b^4 - 9 a^7 b^5 + 32 a^6 b^6 + \\
& 15 a^5 b^7 - 10 a^4 b^8 - 6 a^3 b^9 - a^2 b^{10}) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 * \\
& d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 \\
& * d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2 * (-I * \text{sqrt}(3) + 1) / (-1/1458 * b^2 / (a^8 d^6 - \\
& 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / \\
& ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 \\
& ^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 * \\
& b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 \\
& - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 * b^2 / (a^8 d^6 - 3 a^6 \\
& * b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 \\
& d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + \\
& 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 * \\
& d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) \\
& * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 * (2 a^2 b^2 + b^4)
\end{aligned}$$

$$\begin{aligned}
& 4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^5 + 6*(a^{10} + a^9 \\
& *b - a^8*b^2 - 4*a^7*b^3 - 3*a^6*b^4 + 6*a^5*b^5 + 5*a^4*b^6 - 4*a^3*b^7 - \\
& 2*a^2*b^8 + a*b^9)*d^3)*\sqrt{((432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 5 \\
& 40*b^8 - (a^{12} - 6*a^{10}*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2* \\
& b^{10} + b^{12})*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3* \\
& (2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)* \\
& (-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^ \\
& 2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b \\
& ^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/ \\
& 27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^ \\
& 3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6) \\
&)^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^ \\
& 6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d \\
& ^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(\\
& 2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - \\
& 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1 \\
& /3)}*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2 \\
& *b^4*d^2 - b^6*d^2)^2*d^4 + 36*(2*a^8*b^2 - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^ \\
& 8 - b^{10})*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2* \\
& a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I \\
& *\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^ \\
& ^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4* \\
& d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27* \\
& (2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - \\
& 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(\\
& 1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d \\
& ^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 \\
& - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a \\
& ^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1 \\
& 458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} \\
& *(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^ \\
& 4*d^2 - b^6*d^2))*d^2)/((a^{12} - 6*a^{10}*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a \\
& ^4*b^8 - 6*a^2*b^{10} + b^{12})*d^4))*\sqrt{-(108*a^2*b^2 + 54*b^4 - (a^6 - 3*a \\
& ^4*b^2 + 3*a^2*b^4 - b^6)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - \\
& b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - \\
& b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4 \\
& *b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2* \\
& d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b \\
& ^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^
\end{aligned}$$

$$\begin{aligned}
& 2 - b^6 d^2)^3 - 1/1458(a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3a^6 b^2 d^6 + 3a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2a^2 b^2 + b^4)^3 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} * (I * \sqrt{3} + 1) + 18 * (2a^2 b^2 + b^4) / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2) * d^2 + 3 * \sqrt{1/3} * (a^6 - 3a^4 b^2 + 3a^2 b^4 - b^6) * d^2 * \sqrt{(432 a^6 b^2 + 2592 a^4 b^4 + 5184 a^2 b^6 + 540 b^8 - (a^{12} - 6a^{10} b^2 + 15a^8 b^4 - 20a^6 b^6 + 15a^4 b^8 - 6a^2 b^{10} + b^{12}) * ((b^2 / (a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) + 3 * (2a^2 b^2 + b^4)^2 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2))^2) * (-I * \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d^6 - 3a^6 b^2 d^6 + 3a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2a^2 b^2 + b^4)^3 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3a^6 b^2 d^6 + 3a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2a^2 b^2 + b^4)^3 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} * (I * \sqrt{3} + 1) + 18 * (2a^2 b^2 + b^4) / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2) * d^2 + 36 * (2a^8 b^2 - 5a^6 b^4 + 3a^4 b^6 + a^2 b^8 - b^{10}) * ((b^2 / (a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) + 3 * (2a^2 b^2 + b^4)^2 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2))^2) * (-I * \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d^6 - 3a^6 b^2 d^6 + 3a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2a^2 b^2 + b^4)^3 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3a^6 b^2 d^6 + 3a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3a^4 b^2 d^4 + 3a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2a^2 b^2 + b^4)^3 / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3a^4 b^2 - 24a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{1/3} * (I * \sqrt{3} + 1) + 18 * (2a^2 b^2 + b^4) / (a^6 d^2 - 3a^4 b^2 d^2 + 3a^2 b^4 d^2 - b^6 d^2) * d^2 / ((a^{12} - 6a^{10} b^2 + 15a^8 b^4 - 20a^6 b^6 + 15a^4 b^8 - 6a^2 b^{10} + b^{12}) * d^4) / ((a^6 - 3a^4 b^2 + 3a^2 b^4 - b^6) * d^2) - 4 *
\end{aligned}$$

$$\begin{aligned}
& (a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\cosh(d*x + c) - 4*(a^6*b - 3*a^4*b^3 \\
& - 24*a^2*b^5 - b^7)*\sinh(d*x + c) - \sqrt{2/3}*\sqrt{1/2}*((a^2 - b^2)*d*\cosh(d*x + c) + (a^2 - b^2)*d*\sinh(d*x + c))*\sqrt{-(108*a^2*b^2 + 54*b^4 - (a \\
& ^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2 + 3*\sqrt{1/3}*(a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2*\sqrt{(432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*d^4 + 36*(2*a^8*b^2 - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^10))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^3
\end{aligned}$$

$$\begin{aligned}
& - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} \\
& + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) \\
& - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) \\
& * (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3 \\
& / (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6) \\
& * b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} * (I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2) \\
& * d^2/((a^{12} - 6*a^{10}*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^{10} + b^{12})*d^4)) \\
& / ((a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2) * \log(-1/36*\sqrt{2/3}*\sqrt{1/2} * ((4*a^{12} + 3*a^{11}*b + a^{10}*b^2 - 3*a^9*b^3 - 26*a^8*b^4 - 9*a^7*b^5 + 32*a^6*b^6 + 15*a^5*b^7 - 10*a^4*b^8 - 6*a^3*b^9 - a^2*b^{10}) * ((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2) * (-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) * (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) * (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} * (I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2) * d^5 - 6*(a^{10} + a^9*b + 71*a^8*b^2 + 50*a^7*b^3 + 267*a^6*b^4 + 141*a^5*b^5 + 140*a^4*b^6 + 50*a^3*b^7 + 7*a^2*b^8 + a*b^9) * ((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2) * (-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) * (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) * (a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{1/3} * (I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)
\end{aligned}$$

$$\begin{aligned}
& *d^2)) *d^3 - 36*(2*a^7*b + 18*a^6*b^2 + 6*a^5*b^3 + 63*a^4*b^4 - 9*a^3*b^5 \\
& + a*b^7)*d + 3*\sqrt{1/3}*((4*a^12 + 3*a^11*b + a^10*b^2 - 3*a^9*b^3 - 26*a^8 \\
& *b^4 - 9*a^7*b^5 + 32*a^6*b^6 + 15*a^5*b^7 - 10*a^4*b^8 - 6*a^3*b^9 - a^2* \\
& b^10)*(b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2* \\
& b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{ \\
& 3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d \\
& ^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 \\
& - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a \\
& ^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1 \\
& 458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) \\
& + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) \\
& - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^ \\
& 6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b \\
& ^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458* \\
& (a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I* \\
& \sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^ \\
& 2 - b^6*d^2))*d^5 + 6*(a^10 + a^9*b - a^8*b^2 - 4*a^7*b^3 - 3*a^6*b^4 + 6*a \\
& ^5*b^5 + 5*a^4*b^6 - 4*a^3*b^7 - 2*a^2*b^8 + a*b^9)*d^3)*\sqrt{((432*a^6*b^2 \\
& + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - \\
& 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^ \\
& 4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d \\
& ^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3 \\
& *a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((\\
& a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 \\
& + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^ \\
& 2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - \\
& b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6 \\
& *b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6* \\
& d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3 \\
& *a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^ \\
& 2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6 \\
&) *b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4) \\
& /((a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*d^4 + 36*(2*a^8*b^2 \\
& - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^10)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + \\
& 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 \\
& + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^ \\
& 6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6 \\
& *d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + \\
& 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d
\end{aligned}$$

$$\begin{aligned}
&^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6) \\
&^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 \\
&+ 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 \\
&+ 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b \\
&^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))*d^2/((a^12 - 6a^10b^2 + 15a^8b^4 - 20a^6b^6 + 15a^4b^8 - 6a^2b^10 + b^12)*d^4))*\text{sqrt}(- \\
&(108a^2b^2 + 54b^4 - (a^6 - 3a^4b^2 + 3a^2b^4 - b^6)*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^2)*(-I*\text{sqrt}(3) + 1)/(-1/1458*b^2 \\
&/ (a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))*d^2 + 3*\text{sqrt}(1/3)*(a^6 - 3a^4b^2 + 3a^2b^4 - b^6)*d^2*\text{sqrt}((432a^6b^2 + 2592a^4b^4 + 5184a^2b^6 + 540b^8 - (a^12 - 6a^10b^2 + 15a^8b^4 - 20a^6b^6 + 15a^4b^8 - 6a^2b^10 + b^12))*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^2)*(-I*\text{sqrt}(3) + 1)/(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^2*d^4 + 36*(2a^8b^2 - 5a^
\end{aligned}$$

$$\begin{aligned}
& 6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^{10})*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2/((a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12)*d^4))/((a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2)) - 4*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\cos h(d*x + c) - 4*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\sinh(d*x + c)) + \sqrt{(2/3)*\sqrt{(1/2)*((a^2 - b^2)*d*\cosh(d*x + c) + (a^2 - b^2)*d*\sinh(d*x + c))}}*\sqrt{-(108*a^2*b^2 + 54*b^4 - (a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2 - 3*\sqrt{(1/3)*(a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^6)*d^2*\sqrt{(432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))}}
\end{aligned}$$

$$\begin{aligned}
& 2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))^2*d^4 + 36*(2a^8b^2 - 5a^6b^4 + 3a^4b^6 + a^2b^8 - b^{10})*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))*d^2/((a^{12} - 6a^{10}b^2 + 15a^8b^4 - 20a^6b^6 + 15a^4b^8 - 6a^2b^{10} + b^{12})*d^4)))/((a^6 - 3a^4b^2 + 3a^2b^4 - b^6)*d^2))*\log(1/36*\sqrt{2/3}*\sqrt{1/2}*((4a^{12} + 3a^{11}b + a^{10}b^2 - 3a^9b^3 - 26a^8b^4 - 9a^7b^5 + 32a^6b^6 + 15a^5b^7 - 10a^4b^8 - 6a^3b^9 - a^2b^{10})*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*(2a^2b^2 + b^4)
\end{aligned}$$

$$\begin{aligned}
&)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*d^5 - 6*(a^{10} + a^9*b + 71*a^8*b^2 + 50*a^7*b^3 + 267*a^6*b^4 + 141*a^5*b^5 + 140*a^4*b^6 + 50*a^3*b^7 + 7*a^2*b^8 + a*b^9)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^3 - 36*(2*a^7*b + 18*a^6*b^2 + 6*a^5*b^3 + 63*a^4*b^4 - 9*a^3*b^5 + a*b^7)*d - 3*sqrt(1/3)*((4*a^12 + 3*a^11*b + a^10*b^2 - 3*a^9*b^3 - 26*a^8*b^4 - 9*a^7*b^5 + 32*a^6*b^6 + 15*a^5*b^7 - 10*a^4*b^8 - 6*a^3*b^9 - a^2*b^10))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^5 + 6*(a^{10} + a^9*b - a^8*b^2 - 4*a^7*b^3 - 3*a^6*b^4 + 6*a^5*b^5 + 5*a^4*b^6 - 4*a^3*b^7 - 2*a^2*b^8 + a*b^9)*d^3)*sqrt((432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^{12} - 6*a^{10}*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^{10} + b^{12}))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)
\end{aligned}$$

$$\begin{aligned}
& ^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2* \\
& b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458 \\
& *(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} + \\
& 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1 \\
& /54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4 \\
& ^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 \\
& + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^ \\
& 6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)}*(I*\text{sqrt} \\
& \text{t}(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - \\
& b^6*d^2))^2*d^4 + 36*(2*a^8*b^2 - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^10)* \\
& ((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + \\
& b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2))*(-I*\text{sqrt}(3) + \\
& 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - \\
& 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6* \\
& d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 \\
& + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a \\
& ^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} + 27* \\
& (-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54 \\
& *(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) \\
& *(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b \\
& ^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - \\
& 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)}*(I*\text{sqrt}(3) \\
&) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^ \\
& 6*d^2))^2*d^2)/((a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6 \\
& *a^2*b^10 + b^12)*d^4))*\text{sqrt}(-(108*a^2*b^2 + 54*b^4 - (a^6 - 3*a^4*b^2 + 3 \\
& *a^2*b^4 - b^6))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + \\
& 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^ \\
& 2))*(-I*\text{sqrt}(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - \\
& a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^ \\
& 2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - \\
& 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^ \\
& 2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d \\
& ^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2 \\
& *b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^ \\
& 4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/2 \\
& 7*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 \\
& - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6)) \\
& ^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3* \\
& a^2*b^4*d^2 - b^6*d^2))^2*d^2 - 3*\text{sqrt}(1/3)*(a^6 - 3*a^4*b^2 + 3*a^2*b^4 - b^
\end{aligned}$$

$$\begin{aligned}
& 6)d^2\sqrt{(432a^6b^2 + 2592a^4b^4 + 5184a^2b^6 + 540b^8 - (a^{12} - \\
& 6a^{10}b^2 + 15a^8b^4 - 20a^6b^6 + 15a^4b^8 - 6a^2b^{10} + b^{12}))((b^2/ \\
& (a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4) \\
& ^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I\sqrt{3} + 1)/ \\
& (-1/1458b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54 \\
& *(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) \\
& *(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4) \\
& ^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - \\
& 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{1/3} + 27*(-1/ \\
& 1458b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2* \\
& a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6 \\
& d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/ \\
& (a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4 \\
& b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{1/3}*(I\sqrt{3} + \\
& 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2) \\
& ^2*d^4 + 36*(2a^8b^2 - 5a^6b^4 + 3a^4b^6 + a^2b^8 - b^{10})*((b^2/(\\
& a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/ \\
& (a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I\sqrt{3} + 1)/(-1 \\
& /1458b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2 \\
& *a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a \\
& ^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4) \\
& ^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3* \\
& a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{1/3} + 27*(-1/145 \\
& 8b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2 \\
& *b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6d \\
& ^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(\\
& a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4* \\
& b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6a^2d^6))^{1/3}*(I\sqrt{3} + 1) \\
& + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2) \\
& *d^2/((a^{12} - 6a^{10}b^2 + 15a^8b^4 - 20a^6b^6 + 15a^4b^8 - 6a^2b^{10} \\
& + b^{12})*d^4))/((a^6 - 3a^4b^2 + 3a^2b^4 - b^6)*d^2)) - 4*(a^6*b - 3 \\
& *a^4*b^3 - 24a^2*b^5 - b^7)*\cosh(dx + c) - 4*(a^6*b - 3a^4*b^3 - 24a^2* \\
& b^5 - b^7)*\sinh(dx + c) - \sqrt{2/3}*\sqrt{1/2}*((a^2 - b^2)*d*\cosh(dx + c) \\
&) + (a^2 - b^2)*d*\sinh(dx + c))*\sqrt{-(108a^2b^2 + 54b^4 - (a^6 - 3a^4 \\
& *b^2 + 3a^2b^4 - b^6))*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6 \\
& d^4) + 3*(2a^2b^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6 \\
& d^2)^2)*(-I\sqrt{3} + 1)/(-1/1458b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^2 \\
& ^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 \\
& + 3a^2b^4d^4 - b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6
\end{aligned}$$

$$\begin{aligned}
& *d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 \\
& - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2) \\
& ^6*a^2*d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 \\
& - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + \\
& 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2 \\
&)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6 \\
& *d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a \\
& ^2*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2* \\
& d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2 - 3*sqrt(1/3)*(a^6 - 3*a^4*b^2 + 3*a^2* \\
& b^4 - b^6)*d^2*sqrt((432*a^6*b^2 + 2592*a^4*b^4 + 5184*a^2*b^6 + 540*b^8 - \\
& (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^ \\
& 12))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^ \\
& 2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2))*(-I*sqrt(\\
& 3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) \\
&) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - \\
& b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2 \\
& *b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/145 \\
& 8*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} + \\
& 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - \\
& 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6* \\
& d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 \\
& + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a \\
& ^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)}*(I*sq \\
& rt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 \\
& - b^6*d^2))^2*d^4 + 36*(2*a^8*b^2 - 5*a^6*b^4 + 3*a^4*b^6 + a^2*b^8 - b^10) \\
& *((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + \\
& b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2))*(-I*sqrt(3) \\
& + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - \\
& 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6 \\
& *d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^ \\
& 2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(\\
& a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} + 27 \\
& *(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/5 \\
& 4*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4 \\
&)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + \\
& b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 \\
& - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)}*(I*sqrt(\\
& 3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b \\
& ^6*d^2))*d^2/((a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^6 + 15*a^4*b^8 -
\end{aligned}$$

$$\begin{aligned}
& 6a^2b^{10} + b^{12})d^4)))/((a^6 - 3a^4b^2 + 3a^2b^4 - b^6)d^2))*\log(-1 \\
& /36*\sqrt{2/3}*\sqrt{1/2}*((4a^{12} + 3a^{11}b + a^{10}b^2 - 3a^9b^3 - 26a^8 \\
& *b^4 - 9a^7b^5 + 32a^6b^6 + 15a^5b^7 - 10a^4b^8 - 6a^3b^9 - a^2b \\
& ^{10})*((b^2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b \\
& ^2 + b^4)^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I*\sqrt{ \\
& (3) + 1)/(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^ \\
& 6) - 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - \\
& b^6d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^ \\
& 2b^2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/14 \\
& 58*(a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2d^6))^(1/3) \\
& + 27*(-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - \\
& 1/54*(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6 \\
& *d^4)*(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^ \\
& 2 + b^4)^3/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(\\
& a^6 - 3a^4b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2d^6))^(1/3)*(I*s \\
& \sqrt{3) + 1) + 18*(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 \\
& - b^6d^2))^2*d^5 - 6*(a^{10} + a^9b + 71a^8b^2 + 50a^7b^3 + 267a^6b^ \\
& 4 + 141a^5b^5 + 140a^4b^6 + 50a^3b^7 + 7a^2b^8 + ab^9)*((b^2/(a^6* \\
& d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4)^2/(a^6 \\
& *d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I*\sqrt{3) + 1)/(-1/145 \\
& 8*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2 \\
& *b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6*d \\
& ^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(\\
& a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4* \\
& b^2 - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2d^6))^(1/3) + 27*(-1/1458*b^ \\
& 2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54*(2a^2b^2 \\
& + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4)*(a^6*d^2 - \\
& 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b^4)^3/(a^6* \\
& d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^3 - 1/1458*(a^6 - 3a^4*b^2 \\
& - 24a^2b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2d^6))^(1/3)*(I*\sqrt{3) + 1) + 18 \\
& *(2a^2b^2 + b^4)/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2))*d^3 \\
& - 36*(2a^7b + 18a^6b^2 + 6a^5b^3 + 63a^4b^4 - 9a^3b^5 + ab^7)*d \\
& - 3*\sqrt{1/3}*((4a^{12} + 3a^{11}b + a^{10}b^2 - 3a^9b^3 - 26a^8b^4 - 9a \\
& ^7b^5 + 32a^6b^6 + 15a^5b^7 - 10a^4b^8 - 6a^3b^9 - a^2b^{10})*((b^ \\
& 2/(a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) + 3*(2a^2b^2 + b^4) \\
& ^2/(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)^2)*(-I*\sqrt{3) + 1)/ \\
& (-1/1458*b^2/(a^8d^6 - 3a^6b^2d^6 + 3a^4b^4d^6 - a^2b^6d^6) - 1/54 \\
& *(2a^2b^2 + b^4)*b^2/((a^6d^4 - 3a^4b^2d^4 + 3a^2b^4d^4 - b^6d^4) \\
& *(a^6d^2 - 3a^4b^2d^2 + 3a^2b^4d^2 - b^6d^2)) - 1/27*(2a^2b^2 + b
\end{aligned}$$

$$\begin{aligned}
&^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - \\
&3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6)^{(1/3)} + 27*(-1/ \\
&1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2* \\
&a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^ \\
&6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^ \\
&3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a \\
&^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6)^{(1/3)}*(I*sqrt(3) + \\
&1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^ \\
&2))*d^5 + 6*(a^10 + a^9*b - a^8*b^2 - 4*a^7*b^3 - 3*a^6*b^4 + 6*a^5*b^5 + 5 \\
&*a^4*b^6 - 4*a^3*b^7 - 2*a^2*b^8 + a*b^9)*d^3)*sqrt((432*a^6*b^2 + 2592*a^4 \\
&*b^4 + 5184*a^2*b^6 + 540*b^8 - (a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 20*a^6*b^ \\
&6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2* \\
&b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2 \\
&*b^4*d^2 - b^6*d^2)^2))*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^ \\
&6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - \\
&3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b \\
&^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3* \\
&a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/ \\
&((a^2 - b^2)^6*a^2*d^6)^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + \\
&3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^ \\
&4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4 \\
&d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2 \\
&*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^ \\
&2 - b^2)^6*a^2*d^6)^{(1/3)}*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 \\
&- 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))^2*d^4 + 36*(2*a^8*b^2 - 5*a^6*b \\
&^4 + 3*a^4*b^6 + a^2*b^8 - b^10)*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4 \\
&*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^ \\
&4*d^2 - b^6*d^2)^2))*(-I*sqrt(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 \\
&+ 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a \\
&^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4* \\
&d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2 \\
&*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a \\
&^2 - b^2)^6*a^2*d^6)^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3* \\
&a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b \\
&^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 \\
&- b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4 \\
&*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - \\
&b^2)^6*a^2*d^6)^{(1/3)}*(I*sqrt(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3 \\
&*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2)/((a^12 - 6*a^10*b^2 + 15*a^8*
\end{aligned}$$

$$\begin{aligned}
& *d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 \\
& + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2) \\
& ^2) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - \\
& b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6 \\
& *a^2*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2 \\
& *d^2 + 3*a^2*b^4*d^2 - b^6*d^2))*d^2)/((a^12 - 6*a^10*b^2 + 15*a^8*b^4 - 2 \\
& 0*a^6*b^6 + 15*a^4*b^8 - 6*a^2*b^10 + b^12)*d^4))/((a^6 - 3*a^4*b^2 + 3*a^2 \\
& *b^4 - b^6)*d^2)) - 4*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\text{cosh}(d*x + c) \\
& - 4*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\text{sinh}(d*x + c) - 3*(a - b)*\text{cosh} \\
& (d*x + c)^2 - 6*(a - b)*\text{cosh}(d*x + c)*\text{sinh}(d*x + c) - 3*(a - b)*\text{sinh}(d*x + \\
& c)^2 - 6*((a^2 - b^2)*d*\text{cosh}(d*x + c) + (a^2 - b^2)*d*\text{sinh}(d*x + c))*\text{sqrt}(- \\
& 1/54*(b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 \\
& + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2))*(-I*\text{sqrt}(\\
& 3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) \\
&) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - \\
& b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2 \\
& *b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/145 \\
& 8*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} - \\
& 1/2*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - \\
& 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6 \\
& *d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 \\
& + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(\\
& a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)}*(I*\text{s} \\
& \text{qrt}(3) + 1) - 1/3*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 \\
& - b^6*d^2))*\log(-2*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\text{cosh}(d*x + c) - \\
& 2*(a^6*b - 3*a^4*b^3 - 24*a^2*b^5 - b^7)*\text{sinh}(d*x + c) + 1/6*((4*a^12 + 3* \\
& a^11*b + a^10*b^2 - 3*a^9*b^3 - 26*a^8*b^4 - 9*a^7*b^5 + 32*a^6*b^6 + 15*a^5 \\
& *b^7 - 10*a^4*b^8 - 6*a^3*b^9 - a^2*b^10))*((b^2/(a^6*d^4 - 3*a^4*b^2*d^4 + \\
& 3*a^2*b^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 \\
& + 3*a^2*b^4*d^2 - b^6*d^2)^2))*(-I*\text{sqrt}(3) + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6 \\
& *b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6 \\
& *d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + \\
& 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 \\
& ^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6) \\
& *b^2/((a^2 - b^2)^6*a^2*d^6))^{(1/3)} + 27*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2 \\
& *d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 \\
& - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2 \\
& *b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + \\
& 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b
\end{aligned}$$

$$\begin{aligned}
& ^2/((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I \sqrt{3} + 1) + 18 * (2 a^2 b^2 + b^4) / (a \\
& ^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^2 d^5 - 6 * (a^{10} + a^9 b \\
& + 71 a^8 b^2 + 50 a^7 b^3 + 267 a^6 b^4 + 141 a^5 b^5 + 140 a^4 b^6 + 50 a^3 \\
& 3 b^7 + 7 a^2 b^8 + a b^9) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - \\
& b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 \\
& - b^6 d^2)^2) * (-I \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 \\
& 4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 - 3 a^4 b^2 \\
& * d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - \\
& b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 \\
& ^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) * b^2 / ((a^2 - b \\
& ^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^ \\
& 4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 \\
& + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 * \\
& d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - \\
& b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) * b^2 / ((a^2 - b^2)^ \\
& 6 a^2 d^6)^{(1/3)} * (I \sqrt{3} + 1) + 18 * (2 a^2 b^2 + b^4) / (a^6 d^2 - 3 a^4 b \\
& ^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2) * d^3 + 36 * (a^7 b - 18 a^6 b^2 - 15 a^5 b^ \\
& 3 - 63 a^4 b^4 - 63 a^3 b^5 - 4 a^2 b^7) * d * \sqrt{-1/54 * (b^2 / (a^6 d^4 - 3 a^4 * \\
& b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 \\
& * b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^2) * (-I \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d \\
& ^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * \\
& b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b \\
& ^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 * \\
& a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 * \\
& b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} - 1/2 * (-1/1458 b^2 / (a^8 d^6 \\
& - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 b^2 + b^4) * b^2 \\
& / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 - 3 a^4 b^2 * \\
& d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 \\
& * b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 b^2 - 24 a^2 * b^ \\
& 4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I \sqrt{3} + 1) - 1/3 * (2 a^2 * b^ \\
& 2 + b^4) / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) + 6 * ((a^2 - \\
& b^2) * d * \cosh(d * x + c) + (a^2 - b^2) * d * \sinh(d * x + c)) * \sqrt{-1/54 * (b^2 / (a^6 d^ \\
& 4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 * (2 a^2 b^2 + b^4)^2 / (a^6 d \\
& ^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^2) * (-I \sqrt{3} + 1) / (-1/1458 * \\
& b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 * (2 a^2 * b \\
& ^2 + b^4) * b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) * (a^6 d^2 \\
& - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 * (2 a^2 b^2 + b^4)^3 / (a^ \\
& 6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 * (a^6 - 3 a^4 * b^ \\
& 2 - 24 a^2 b^4 - b^6) * b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} - 1/2 * (-1/1458 b^2
\end{aligned}$$

$$\begin{aligned}
&/ (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 (2 a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} (I \sqrt{3} + 1) - 1/3 (2 a^2 b^2 + b^4) / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2) * \log (-2 (a^6 b - 3 a^4 b^3 - 24 a^2 b^5 - b^7) * \cosh(d x + c) - 2 (a^6 b - 3 a^4 b^3 - 24 a^2 b^5 - b^7) * \sinh(d x + c) - 1/6 ((4 a^{12} + 3 a^{11} b + a^{10} b^2 - 3 a^9 b^3 - 26 a^8 b^4 - 9 a^7 b^5 + 32 a^6 b^6 + 15 a^5 b^7 - 10 a^4 b^8 - 6 a^3 b^9 - a^2 b^{10}) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2) * (-I \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 (2 a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 (2 a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I \sqrt{3} + 1) + 18 (2 a^2 b^2 + b^4) / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2 d^5 - 6 (a^{10} + a^9 b + 71 a^8 b^2 + 50 a^7 b^3 + 267 a^6 b^4 + 141 a^5 b^5 + 140 a^4 b^6 + 50 a^3 b^7 + 7 a^2 b^8 + a b^9) * ((b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) + 3 (2 a^2 b^2 + b^4)^2 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))^2) * (-I \sqrt{3} + 1) / (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 (2 a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} + 27 * (-1/1458 b^2 / (a^8 d^6 - 3 a^6 b^2 d^6 + 3 a^4 b^4 d^6 - a^2 b^6 d^6) - 1/54 (2 a^2 b^2 + b^4) b^2 / ((a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) - 1/27 (2 a^2 b^2 + b^4)^3 / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)^3 - 1/1458 (a^6 - 3 a^4 b^2 - 24 a^2 b^4 - b^6) b^2 / ((a^2 - b^2)^6 a^2 d^6)^{(1/3)} * (I \sqrt{3} + 1) + 18 (2 a^2 b^2 + b^4) / (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2)) * d^3 + 36 (a^7 b - 18 a^6 b^2 - 15 a^5 b^3 - 63 a^4 b^4 - 63 a^3 b^5 - 4 a^2 b^7) * d) * \sqrt{-1/54 (b^2 / (a^6 d^4 - 3 a^4 b^2 d^4 + 3 a^2 b^4 d^4 - b^6 d^4) (a^6 d^2 - 3 a^4 b^2 d^2 + 3 a^2 b^4 d^2 - b^6 d^2))}
\end{aligned}$$

$$\begin{aligned} &^4*d^4 - b^6*d^4) + 3*(2*a^2*b^2 + b^4)^2/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^2*(-I*\sqrt{3} + 1)/(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3) - 1/2*(-1/1458*b^2/(a^8*d^6 - 3*a^6*b^2*d^6 + 3*a^4*b^4*d^6 - a^2*b^6*d^6) - 1/54*(2*a^2*b^2 + b^4)*b^2/((a^6*d^4 - 3*a^4*b^2*d^4 + 3*a^2*b^4*d^4 - b^6*d^4)*(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)) - 1/27*(2*a^2*b^2 + b^4)^3/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2)^3 - 1/1458*(a^6 - 3*a^4*b^2 - 24*a^2*b^4 - b^6)*b^2/((a^2 - b^2)^6*a^2*d^6))^(1/3)*(I*\sqrt{3} + 1) - 1/3*(2*a^2*b^2 + b^4)/(a^6*d^2 - 3*a^4*b^2*d^2 + 3*a^2*b^4*d^2 - b^6*d^2))) - 3*a - 3*b)/((a^2 - b^2)*d*cosh(d*x + c) + (a^2 - b^2)*d*sinh(d*x + c)) \end{aligned}$$

Integral number [77]

$$\int \frac{\operatorname{csch}(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 1.79301 (sec), size = 20085 ,normalized size = 956.43

Too large to display

[In] integrate(csch(d*x+c)/(a+b*tanh(d*x+c)^3),x, algorithm=""fricas"")

[Out]

$$\begin{aligned} &-1/6*(\sqrt{2/3}*\sqrt{1/6}*a*d*\sqrt{((a^4 - a^2*b^2)*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4)))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2 + 3*\sqrt{1/3}*(a^4 - a^2*b^2)*d^2*\sqrt{-((a^8 - 2*a^6*b^2 + a^4*b^4)*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4)))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - \end{aligned}$$

$$\begin{aligned}
& a^6 b^2 d^6 + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} + 81 * (-1/729 b^6 / \\
& (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2) \\
& ^2 a^4 d^6)^{1/3} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2)^2 d^4 \\
& - 1296 a^2 b^2 + 324 b^4 - 36 * (a^4 b^2 - a^2 b^4) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 \\
& - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6) \\
& ^{1/3} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) \\
& + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2) * d^2 / ((a^8 - 2 a^6 b^2 + a^4 b^4) d^4) - 54 b^2 / ((a^4 - a^2 b^2) d^2) \\
& * \log(1/324 * \text{sqrt}(2/3) * \text{sqrt}(1/6) * ((a^6 - a^4 b^2) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 \\
& - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/ \\
& 486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} * (I * \text{sqrt}(3) \\
& + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2)^2 d^5 - 18 * (a^4 + 2 a^2 b^2) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (- \\
& 1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6) \\
& ^{1/3} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6) \\
& ^{1/3} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2) * d^3 - 324 * (2 a b + b^2) * d - 3 * \text{sqrt}(\\
& 1/3) * ((a^6 - a^4 b^2) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) \\
& - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) \\
& - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2) * d^5 + \\
& 18 * (a^4 - a^2 b^2) * d^3 * \text{sqrt}(-((a^8 - 2 a^6 b^2 + a^4 b^4) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 \\
& - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)^{1/3} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2)^3 - 1/486 b^4 /
\end{aligned}$$

$$\begin{aligned}
& d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 \\
& - b^2)^2 a^4 d^6))^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2)) \\
& * d^2 + 3 * \text{sqrt}(1/3) * (a^4 - a^2 b^2) * d^2 * \text{sqrt}(-((a^8 - 2 a^6 b^2 + a^4 b^4) * (\\
& (b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4))) * (-I * \text{sqrt}(3) + \\
& 1)) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) \\
& * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 * \\
& b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2) \\
& ^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b \\
& ^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} * (I * \text{sqrt}(3) \\
& + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2))^{2 d^4} - 1296 a^2 b^2 + 324 b^4 \\
& - 36 * (a^4 b^2 - a^2 b^4) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - \\
& a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/4 \\
& 86 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 * \\
& d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} + 81 * (-1/729 \\
& * b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^ \\
& 2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - \\
& b^2)^2 a^4 d^6))^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 - a^2 b^2 d^2)) * d \\
& ^2) / ((a^8 - 2 a^6 b^2 + a^4 b^4) * d^4)) - 54 b^2) / ((a^4 - a^2 b^2) * d^2)) * \log \\
& (-1/324 * \text{sqrt}(2/3) * \text{sqrt}(1/6) * ((a^6 - a^4 b^2) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^ \\
& 2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a^ \\
& 2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) \\
& - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(\\
& 1/3)} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^ \\
& 4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + \\
& 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^2 \\
& - a^2 b^2 d^2))^{2 d^5} - 18 * (a^4 + 2 a^2 b^2) * ((b^4 / (a^4 d^2 - a^2 b^2 d^2)) \\
& ^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) + 1) / (-1/729 b^6 / (a^4 d^2 - a \\
& ^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) \\
& - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6)) \\
& ^{(1/3)} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a \\
& ^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + \\
& 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} * (I * \text{sqrt}(3) + 1) + 18 b^2 / (a^4 d^ \\
& 2 - a^2 b^2 d^2)) * d^3 - 324 * (2 a b + b^2) * d - 3 * \text{sqrt}(1/3) * ((a^6 - a^4 b^2) * \\
& ((b^4 / (a^4 d^2 - a^2 b^2 d^2))^2 + b^2 / (a^6 d^4 - a^4 b^2 d^4)) * (-I * \text{sqrt}(3) \\
& + 1) / (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2))^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 * \\
& d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 \\
& * b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} + 81 * (-1/729 b^6 / (a^4 d^2 - a^2 b^2 d^2) \\
&)^3 - 1/486 b^4 / ((a^6 d^4 - a^4 b^2 d^4) * (a^4 d^2 - a^2 b^2 d^2)) - 1/1458 * \\
& b^2 / (a^8 d^6 - a^6 b^2 d^6) + 1/1458 b^2 / ((a^2 - b^2)^2 a^4 d^6))^{(1/3)} * (I *
\end{aligned}$$

$$\begin{aligned}
& \sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^5 + 18*(a^4 - a^2*b^2)*d^3 \\
&)*\sqrt{-((a^8 - 2*a^6*b^2 + a^4*b^4)*((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/ \\
& (a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2) \\
& ^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458 \\
& *b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + \\
& 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4) \\
& *(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b \\
& ^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b \\
& ^2*d^2))^2*d^4 - 1296*a^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4)*((b^4/(a^4 \\
& *d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/7 \\
& 29*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4* \\
& d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 \\
& - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/48 \\
& 6*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d \\
& ^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\sqrt{3} + \\
& 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4) \\
&))*\sqrt{((a^4 - a^2*b^2)*((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a \\
& ^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486 \\
& *b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^ \\
& 6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b \\
& ^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 \\
& - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b \\
& ^2)^2*a^4*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2 \\
& + 3*\sqrt{1/3)*(a^4 - a^2*b^2)*d^2*\sqrt{-((a^8 - 2*a^6*b^2 + a^4*b^4)*((b^4 \\
& /((a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/ \\
& (-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)* \\
& (a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/ \\
& ((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - \\
& 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(\\
& a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\sqrt{3} \\
& (3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 - 1296*a^2*b^2 + 324*b^4 - \\
& 36*(a^4*b^2 - a^2*b^4)*((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4 \\
& *b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b \\
& ^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 \\
& - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6 \\
& /((a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - \\
& a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2) \\
& ^2*a^4*d^6))^(1/3)*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/ \\
& ((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4)) - 54*b^2)/((a^4 - a^2*b^2)*d^2)) + 4*b*c
\end{aligned}$$

$$\begin{aligned} & \text{osh}(d*x + c) + 4*b*\sinh(d*x + c)) + \text{sqrt}(2/3)*\text{sqrt}(1/6)*a*d*\text{sqrt}(((a^4 - a^2*b^2)*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2 - 3*\text{sqrt}(1/3)*(a^4 - a^2*b^2)*d^2*\text{sqrt}(-((a^8 - 2*a^6*b^2 + a^4*b^4)*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\text{sqrt}(3) + 1) + 18*b^2/((a^4*d^2 - a^2*b^2*d^2))^2*d^4 - 1296*a^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4)*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4) - 54*b^2)/((a^4 - a^2*b^2)*d^2))*\log(1/324*\text{sqrt}(2/3)*\text{sqrt}(1/6))*((a^6 - a^4*b^2)*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^5 - 18*(a^4 + 2*a^2*b^2)*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3) + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^(1/3)*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^3 - 324*(2*a*b + b^2)*d + 3*\text{sqrt}(1/3))*((a^6 - a^4*b^2)*(b^4/(a^4*d^2 - a^2*b^2$$

$$\begin{aligned}
& 2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d \\
& ^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2 \\
& *d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4 \\
& *d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d \\
& ^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2* \\
& d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(\\
& a^4*d^2 - a^2*b^2*d^2))*d^5 + 18*(a^4 - a^2*b^2)*d^3)*\sqrt{-((a^8 - 2*a^6*b \\
& ^2 + a^4*b^4))*((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4) \\
&)*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6* \\
& d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2 \\
& *d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 \\
& - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d \\
& ^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d \\
& ^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 - 1296*a \\
& ^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4))*((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + \\
& b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b \\
& ^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1 \\
& /1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/ \\
& 3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b \\
& ^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1 \\
& 458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - \\
& a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4))*\sqrt{((a^4 - a^2*b^2 \\
&)*((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} \\
&) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^ \\
& 2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/14 \\
& 58*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d \\
& ^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/145 \\
& 8*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(\\
& I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2 - 3*\sqrt{1/3)*(a^4 - a \\
& ^2*b^2)*d^2*\sqrt{-((a^8 - 2*a^6*b^2 + a^4*b^4))*((b^4/(a^4*d^2 - a^2*b^2*d^2) \\
&)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - \\
& a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2) \\
&) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6) \\
&)^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - \\
& a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) \\
& + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d \\
& ^2 - a^2*b^2*d^2))^2*d^4 - 1296*a^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4)* \\
& ((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\sqrt{3} \\
& + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*
\end{aligned}$$

$$\begin{aligned}
& d^4*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458 \\
& *b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2) \\
&)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458* \\
& b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I* \\
& \text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4 \\
& *b^4)*d^4)) - 54*b^2)/((a^4 - a^2*b^2)*d^2)) + 4*b*cosh(d*x + c) + 4*b*sinh \\
& (d*x + c)) - \text{sqrt}(2/3)*\text{sqrt}(1/6)*a*d*\text{sqrt}(((a^4 - a^2*b^2)*((b^4/(a^4*d^2 - \\
& a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6 \\
& /((a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - \\
& a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2) \\
&)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/ \\
& ((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a \\
& ^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 1 \\
& 8*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2 - 3*\text{sqrt}(1/3)*(a^4 - a^2*b^2)*d^2*\text{sqrt}(- \\
& ((a^8 - 2*a^6*b^2 + a^4*b^4)*((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 \\
& - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1 \\
& /486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^ \\
& 8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/7 \\
& 29*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4* \\
& d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 \\
& - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2)) \\
& ^2*d^4 - 1296*a^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4)*((b^4/(a^4*d^2 - a \\
& ^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(\\
& a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^ \\
& 2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^ \\
& 2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((\\
& a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6 \\
& *b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18* \\
& b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4)) - 54*b \\
& ^2)/((a^4 - a^2*b^2)*d^2))*\log(-1/324*\text{sqrt}(2/3)*\text{sqrt}(1/6)*((a^6 - a^4*b^2)* \\
& ((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) \\
& + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2* \\
& d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458 \\
& *b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2) \\
&)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458* \\
& b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I* \\
& \text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^5 - 18*(a^4 + 2*a^2*b^2) \\
& *((b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) \\
& + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2
\end{aligned}$$

$$\begin{aligned}
& *d^4*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/145 \\
& 8*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^ \\
& 2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458 \\
& *b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I \\
& *sqrt(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^3 - 324*(2*a*b + b^2)*d + \\
& 3*sqrt(1/3)*((a^6 - a^4*b^2)*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^ \\
& 4 - a^4*b^2*d^4))*(-I*sqrt(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - \\
& 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a \\
& ^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/ \\
& 729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4 \\
& *d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^ \\
& 2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2) \\
&)*d^5 + 18*(a^4 - a^2*b^2)*d^3)*sqrt(-((a^8 - 2*a^6*b^2 + a^4*b^4)*(b^4/(a \\
& ^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*sqrt(3) + 1)/(-1 \\
& /729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^ \\
& 4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a \\
& ^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/ \\
& 486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8 \\
& *d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*sqrt(3) \\
& + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^4 - 1296*a^2*b^2 + 324*b^4 - 36* \\
& (a^4*b^2 - a^2*b^4)*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^ \\
& 2*d^4))*(-I*sqrt(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/ \\
& ((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a \\
& ^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a \\
& ^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2 \\
& *b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2 \\
& *a^4*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a \\
& ^8 - 2*a^6*b^2 + a^4*b^4)*d^4))*sqrt(((a^4 - a^2*b^2)*(b^4/(a^4*d^2 - a^2 \\
& *b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*sqrt(3) + 1)/(-1/729*b^6/(a^ \\
& 4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2* \\
& b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2* \\
& a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^ \\
& 6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b \\
& ^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*sqrt(3) + 1) + 18*b^ \\
& 2/(a^4*d^2 - a^2*b^2*d^2))*d^2 - 3*sqrt(1/3)*(a^4 - a^2*b^2)*d^2)*sqrt(-((a^ \\
& 8 - 2*a^6*b^2 + a^4*b^4)*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a \\
& ^4*b^2*d^4))*(-I*sqrt(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486 \\
& *b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^ \\
& 6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b
\end{aligned}$$

$$\begin{aligned}
&^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 \\
&- a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b \\
&^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d \\
&^4 - 1296*a^2*b^2 + 324*b^4 - 36*(a^4*b^2 - a^2*b^4)*((b^4/(a^4*d^2 - a^2*b \\
&^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4* \\
&d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^ \\
&2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^ \\
&4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6* \\
&d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2 \\
&*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*b^2/ \\
&(a^4*d^2 - a^2*b^2*d^2))*d^2)/((a^8 - 2*a^6*b^2 + a^4*b^4)*d^4)) - 54*b^2)/ \\
&((a^4 - a^2*b^2)*d^2)) + 4*b*cosh(d*x + c) + 4*b*sinh(d*x + c)) - 6*sqrt(-1 \\
&/162*(b^4/(a^4*d^2 - a^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt} \\
&(3) + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4* \\
&b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/ \\
&1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} - 1/2*(-1/729*b^6/(a^4*d^2 - a^2*b^ \\
&2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/ \\
&1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3} \\
&)*(I*\text{sqrt}(3) + 1) - 1/9*b^2/(a^4*d^2 - a^2*b^2*d^2))*a*d*log(2*b*cosh(d*x + \\
&c) + 2*b*sinh(d*x + c) + 1/54*((a^6 - a^4*b^2)*((b^4/(a^4*d^2 - a^2*b^2*d^ \\
&2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 - \\
&a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2 \\
&)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6 \\
&))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - \\
&a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) \\
&+ 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4* \\
&d^2 - a^2*b^2*d^2))^2*d^5 - 18*(a^4 + 2*a^2*b^2)*((b^4/(a^4*d^2 - a^2*b^2*d^ \\
&^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(a^4*d^2 \\
&- a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^ \\
&2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^ \\
&6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 \\
&- a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6 \\
&) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\text{sqrt}(3) + 1) + 18*b^2/(a^4 \\
&*d^2 - a^2*b^2*d^2))*d^3 + 324*(a*b - b^2)*d)*sqrt(-1/162*(b^4/(a^4*d^2 - a \\
&^2*b^2*d^2))^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))*(-I*\text{sqrt}(3) + 1)/(-1/729*b^6/(\\
&a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^ \\
&2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^ \\
&2*a^4*d^6))^{(1/3)} - 1/2*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2))^3 - 1/486*b^4/(\\
&(a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^
\end{aligned}$$

$$\begin{aligned}
 &6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) - 1/9*b^2/(a^4*d^2 - a^2*b^2*d^2)) + 6*\sqrt{-1/162*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4))}*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} - 1/2*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) - 1/9*b^2/(a^4*d^2 - a^2*b^2*d^2))*a*d*log(2*b*cosh(d*x + c) + 2*b*sinh(d*x + c) - 1/54*((a^6 - a^4*b^2)*((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4)))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))^2*d^5 - 18*(a^4 + 2*a^2*b^2)*((b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4)))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} + 81*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) + 18*b^2/(a^4*d^2 - a^2*b^2*d^2))*d^3 + 324*(a*b - b^2)*d)*\sqrt{-1/162*(b^4/(a^4*d^2 - a^2*b^2*d^2)^2 + b^2/(a^6*d^4 - a^4*b^2*d^4)))*(-I*\sqrt{3} + 1)/(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)} - 1/2*(-1/729*b^6/(a^4*d^2 - a^2*b^2*d^2)^3 - 1/486*b^4/((a^6*d^4 - a^4*b^2*d^4)*(a^4*d^2 - a^2*b^2*d^2)) - 1/1458*b^2/(a^8*d^6 - a^6*b^2*d^6) + 1/1458*b^2/((a^2 - b^2)^2*a^4*d^6))^{(1/3)}*(I*\sqrt{3} + 1) - 1/9*b^2/(a^4*d^2 - a^2*b^2*d^2)) + 6*log(cosh(d*x + c) + sinh(d*x + c) + 1) - 6*log(cosh(d*x + c) + sinh(d*x + c) - 1))/(a*d)
 \end{aligned}$$

Integral number [79]

$$\int \frac{\operatorname{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[C] time = 3.06802 (sec), size = 6846 ,normalized size = 297.65

Too large to display

[In] integrate(csch(d*x+c)^3/(a+b*tanh(d*x+c)^3),x, algorithm="fricas")

[Out]

$$\begin{aligned}
 & -1/6*(6*\cosh(d*x + c)^3 + 18*\cosh(d*x + c)*\sinh(d*x + c)^2 + 6*\sinh(d*x + c) \\
 &)^3 + (a*d*\cosh(d*x + c)^4 + 4*a*d*\cosh(d*x + c)*\sinh(d*x + c)^3 + a*d*\sinh \\
 & (d*x + c)^4 - 2*a*d*\cosh(d*x + c)^2 + 2*(3*a*d*\cosh(d*x + c)^2 - a*d)*\sinh \\
 & (d*x + c)^2 + a*d + 4*(a*d*\cosh(d*x + c)^3 - a*d*\cosh(d*x + c))*\sinh(d*x + c) \\
 &)*\sqrt{((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} + 3*\sqrt{1/3}*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)* \\
 & ((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)^2*a^6*d^4 + 16*b^2)/(a^6*d^4)) - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)*\log(4*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\cosh(d*x + c) + 4*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\sinh(d*x + c) + 1/2*(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)^2*a^9*d^5 + (a^7 - a^5*b^2)*((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)*d^3 + 4*(a^4*b + 2*a^3*b^2 + a^2*b^3)*d - 3*\sqrt{1/3}*(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)^2*a^9*d^5 - (a^7 - a^5*b^2)*d^3)*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)^2*a^6*d^4 + 16*b^2)/(a^6*d^4))*\sqrt{((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} + 3*\sqrt{1/3}*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3}) + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} \\
 &)^2*a^6*d^4 + 16*b^2)/(a^6*d^4)) - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3}) + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3))} - (a*d*
 \end{aligned}$$

$$\begin{aligned}
& \cosh(dx + c)^4 + 4*ad*\cosh(dx + c)*\sinh(dx + c)^3 + a*d*\sinh(dx + c)^4 \\
& - 2*ad*\cosh(dx + c)^2 + 2*(3*ad*\cosh(dx + c)^2 - a*d)*\sinh(dx + c)^2 \\
& + a*d + 4*(a*d*\cosh(dx + c)^3 - a*d*\cosh(dx + c))*\sinh(dx + c))*\sqrt{\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}}^{\frac{1}{3}} + 3*\sqrt{\frac{1}{3}}*\sqrt{-\left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}}}}^2*a^6d^4 + 16*b^2/\left(a^6d^4\right) - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}})}*log\left(4*(a^3b + a^2b^2 + ab^3 + b^4)*\cosh(dx + c) + 4*(a^3b + a^2b^2 + ab^3 + b^4)*\sinh(dx + c) - \frac{1}{2}* \left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}}}\right)^2*a^9d^5 + (a^7 - a^5b^2)*\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}}^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}})}*d^3 + 4*(a^4b + 2*a^3b^2 + a^2b^3)*d - 3*\sqrt{\frac{1}{3}}*\left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}})}*a^9d^5 - (a^7 - a^5b^2)*d^3*\sqrt{-\left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}}}}^2*a^6d^4 + 16*b^2/\left(a^6d^4\right))*\sqrt{\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} + 3*\sqrt{\frac{1}{3}}*\sqrt{-\left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}}}}^2*a^6d^4 + 16*b^2/\left(a^6d^4\right) - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}})} + (a*d*\cosh(dx + c)^4 + 4*ad*\cosh(dx + c)*\sinh(dx + c)^3 + a*d*\sinh(dx + c)^4 - 2*ad*\cosh(dx + c)^2 + 2*(3*ad*\cosh(dx + c)^2 - a*d)*\sinh(dx + c)^2 + a*d + 4*(a*d*\cosh(dx + c)^3 - a*d*\cosh(dx + c))*\sinh(dx + c))*\sqrt{\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}}^{\frac{1}{3}} - 3*\sqrt{\frac{1}{3}}*\sqrt{-\left(\left(\frac{1}{2}\right)^{\frac{1}{3}}*(I*\sqrt{3} + 1)*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}} - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}}}}^2*a^6d^4 + 16*b^2/\left(a^6d^4\right) - 2*\left(\frac{1}{2}\right)^{\frac{2}{3}}*b^2*(-I*\sqrt{3} + 1)/\left(a^6d^4*\left(\frac{a^2 + b^2}{a^{10}d^6}\right) - \frac{a^2b^2 - b^4}{a^{10}d^6}\right)^{\frac{1}{3}})}*log
\end{aligned}$$

$$\begin{aligned}
& (1/3) - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)})) * a^9*d^5 - (a^7 - a^5*b^2)*d^3 * \\
& \sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))^{2*a^6*d^4 + 16*b^2/(a^6*d^4)}} * \\
& \sqrt{((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 3*\sqrt{1/3}*\sqrt{-(((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))^{2*a^6*d^4 + 16*b^2/(a^6*d^4)}} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)})) - 6*(a*d*\cosh(d*x + c))^4 + 4*a*d*\cosh(d*x + c)*\sinh(d*x + c)^3 + a*d*\sinh(d*x + c)^4 - 2*a*d*\cosh(d*x + c)^2 + 2*(3*a*d*\cosh(d*x + c)^2 - a*d)*\sinh(d*x + c)^2 + a*d + 4*(a*d*\cosh(d*x + c)^3 - a*d*\cosh(d*x + c))*\sinh(d*x + c)) * \sqrt{-1/18*(1/2)^{(1/3)}*(I*\sqrt{3} + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} + 1/9*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)})) * \log(2*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\cosh(d*x + c) + 2*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\sinh(d*x + c) + 3*(((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))^{2*a^9*d^5 + (a^7 - a^5*b^2)*((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)})) * d^3 - 2*(a^4*b - 4*a^3*b^2 + a^2*b^3)*d * \sqrt{-1/18*(1/2)^{(1/3)}*(I*\sqrt{3} + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} + 1/9*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))} + 6*(a*d*\cosh(d*x + c))^4 + 4*a*d*\cosh(d*x + c)*\sinh(d*x + c)^3 + a*d*\sinh(d*x + c)^4 - 2*a*d*\cosh(d*x + c)^2 + 2*(3*a*d*\cosh(d*x + c)^2 - a*d)*\sinh(d*x + c)^2 + a*d + 4*(a*d*\cosh(d*x + c)^3 - a*d*\cosh(d*x + c))*\sinh(d*x + c)) * \sqrt{-1/18*(1/2)^{(1/3)}*(I*\sqrt{3} + 1)*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} + 1/9*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)})) * \log(2*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\cosh(d*x + c) + 2*(a^3*b + a^2*b^2 + a*b^3 + b^4)*\sinh(d*x + c) - 3*(((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)} - 2*(1/2)^{(2/3)}*b^2*(-I*\sqrt{3} + 1)/(a^6*d^4*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))^{2*a^9*d^5 + (a^7 - a^5*b^2)*((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))^{2*a^9*d^5 + (a^7 - a^5*b^2)*((1/2)^{(1/3)}*(I*\sqrt{3} + 1))*((a^2 + b^2)*b^2/(a^{10}*d^6) - (a^2*b^2 - b^4)/(a^{10}*d^6))^{(1/3)}))
\end{aligned}$$

$$\begin{aligned}
& + b^2) * b^2 / (a^{10} * d^6) - (a^2 * b^2 - b^4) / (a^{10} * d^6))^{1/3} - 2 * (1/2)^{2/3} * b \\
& ^2 * (-I * \sqrt{3} + 1) / (a^6 * d^4 * ((a^2 + b^2) * b^2 / (a^{10} * d^6) - (a^2 * b^2 - b^4) / \\
& (a^{10} * d^6))^{1/3})) * d^3 - 2 * (a^4 * b - 4 * a^3 * b^2 + a^2 * b^3) * d * \sqrt{-1/18 * (1/ \\
& 2)^{1/3} * (I * \sqrt{3} + 1) * ((a^2 + b^2) * b^2 / (a^{10} * d^6) - (a^2 * b^2 - b^4) / (a^{10} * d^6))^{1/3} + 1/9 * (1/2)^{2/3} * b^2 * (-I * \sqrt{3} + 1) / (a^6 * d^4 * ((a^2 + b^2) * \\
& b^2 / (a^{10} * d^6) - (a^2 * b^2 - b^4) / (a^{10} * d^6))^{1/3})) - 3 * (\cosh(d * x + c)^4 \\
& + 4 * \cosh(d * x + c) * \sinh(d * x + c)^3 + \sinh(d * x + c)^4 + 2 * (3 * \cosh(d * x + c)^2 \\
& - 1) * \sinh(d * x + c)^2 - 2 * \cosh(d * x + c)^2 + 4 * (\cosh(d * x + c)^3 - \cosh(d * x + \\
& c)) * \sinh(d * x + c) + 1) * \log(\cosh(d * x + c) + \sinh(d * x + c) + 1) + 3 * (\cosh(d * x \\
& + c)^4 + 4 * \cosh(d * x + c) * \sinh(d * x + c)^3 + \sinh(d * x + c)^4 + 2 * (3 * \cosh(d * x \\
& + c)^2 - 1) * \sinh(d * x + c)^2 - 2 * \cosh(d * x + c)^2 + 4 * (\cosh(d * x + c)^3 - \cosh \\
& (d * x + c)) * \sinh(d * x + c) + 1) * \log(\cosh(d * x + c) + \sinh(d * x + c) - 1) + 6 * (\\
& 3 * \cosh(d * x + c)^2 + 1) * \sinh(d * x + c) + 6 * \cosh(d * x + c)) / (a * d * \cosh(d * x + c)^4 \\
& + 4 * a * d * \cosh(d * x + c) * \sinh(d * x + c)^3 + a * d * \sinh(d * x + c)^4 - 2 * a * d * \cosh \\
& (d * x + c)^2 + 2 * (3 * a * d * \cosh(d * x + c)^2 - a * d) * \sinh(d * x + c)^2 + a * d + 4 * (a * d \\
& * \cosh(d * x + c)^3 - a * d * \cosh(d * x + c)) * \sinh(d * x + c))
\end{aligned}$$

Mupad

Integral number [76]

$$\int \frac{\sinh(c + dx)}{a + b \tanh^3(c + dx)} dx$$

[B] time = 85.6328 (sec), size = -1 , normalized size = -0.05

Too large to display

[In] int(sinh(c + d*x)/(a + b*tanh(c + d*x)^3),x)

[Out]

$$\begin{aligned}
& \exp(-c - d * x) / (2 * (a * d - b * d)) + \text{symsum}(\log((81920 * a^2 * b^5 * \exp(d * x) * \exp(\text{root} \\
& (2187 * a^6 * b^2 * d^6 * z^6 - 2187 * a^4 * b^4 * d^6 * z^6 + 729 * a^2 * b^6 * d^6 * z^6 - 729 * a \\
& ^8 * d^6 * z^6 - 1458 * a^4 * b^2 * d^4 * z^4 - 729 * a^2 * b^4 * d^4 * z^4 + 81 * a^2 * b^2 * d^2 * z^2 \\
& - b^2, z, k)) + 221184 * \text{root}(2187 * a^6 * b^2 * d^6 * z^6 - 2187 * a^4 * b^4 * d^6 * z^6 + \\
& 729 * a^2 * b^6 * d^6 * z^6 - 729 * a^8 * d^6 * z^6 - 1458 * a^4 * b^2 * d^4 * z^4 - 729 * a^2 * b^4 \\
& * d^4 * z^4 + 81 * a^2 * b^2 * d^2 * z^2 - b^2, z, k)^3 * a^2 * b^8 * d^3 - 3538944 * \text{root}(218 \\
& 7 * a^6 * b^2 * d^6 * z^6 - 2187 * a^4 * b^4 * d^6 * z^6 + 729 * a^2 * b^6 * d^6 * z^6 - 729 * a^8 * d^
\end{aligned}$$

$$\begin{aligned}
& 6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^3*b^7*d^3 + 1990656*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^4*b^6*d^3 + 3538944*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^5*b^5*d^3 - 2211840*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^3*a^6*b^4*d^3 + 7962624*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^3*b^9*d^5 + 15925248*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^4*b^8*d^5 - 7962624*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^5*b^7*d^5 - 31850496*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^6*b^6*d^5 - 7962624*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^7*b^5*d^5 + 15925248*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^8*b^4*d^5 + 7962624*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)^5*a^9*b^3*d^5 + 98304*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)*a^2*b^6*d - 98304*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)*a^3*b^5*d + 24576*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)*a^4*b^4*d + 8192*a*b^6*\text{exp}(d*x)*\text{exp}(\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 368640*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)
\end{aligned}$$

$$\begin{aligned}
& 2*b^2*d^2*z^2 - b^2, z, k)^2*a^2*b^7*d^2*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6 \\
& *z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458* \\
& a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) - \\
& 2285568*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6* \\
& z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2 \\
& *b^2*d^2*z^2 - b^2, z, k)^2*a^3*b^6*d^2*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6* \\
& z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a \\
& ^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) - 5 \\
& 013504*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z \\
& ^6 - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2* \\
& b^2*d^2*z^2 - b^2, z, k)^2*a^4*b^5*d^2*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z \\
& ^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^ \\
& 4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) - 36 \\
& 8640*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 \\
& - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^ \\
& 2*d^2*z^2 - b^2, z, k)^2*a^5*b^4*d^2*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 \\
& - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4* \\
& b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 8626 \\
& 176*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 \\
& - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2 \\
& *d^2*z^2 - b^2, z, k)^4*a^3*b^8*d^4*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 \\
& - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b \\
& ^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 40476 \\
& 672*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 \\
& - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2 \\
& *d^2*z^2 - b^2, z, k)^4*a^4*b^7*d^4*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 \\
& - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b \\
& ^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 70336 \\
& 512*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 \\
& - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2 \\
& *d^2*z^2 - b^2, z, k)^4*a^5*b^6*d^4*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 \\
& - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b \\
& ^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 54411 \\
& 264*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 \\
& - 729*a^8*d^6*z^6 - 1458*a^4*b^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2 \\
& *d^2*z^2 - b^2, z, k)^4*a^6*b^5*d^4*\exp(d*x)*\exp(\text{root}(2187*a^6*b^2*d^6*z^6 \\
& - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6 - 729*a^8*d^6*z^6 - 1458*a^4*b \\
& ^2*d^4*z^4 - 729*a^2*b^4*d^4*z^4 + 81*a^2*b^2*d^2*z^2 - b^2, z, k)) + 16588 \\
& 800*\text{root}(2187*a^6*b^2*d^6*z^6 - 2187*a^4*b^4*d^6*z^6 + 729*a^2*b^6*d^6*z^6
\end{aligned}$$

$$\begin{aligned}
& b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^3 a^5 b^4 d^3 + 18119393280 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^5 a^4 b^7 d^5 + 235552112640 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^5 a^5 b^6 d^5 + 14495514624 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^5 a^6 b^5 d^5 - 219244658688 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^5 a^7 b^4 d^5 - 48922361856 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^5 a^8 b^3 d^5 - 32614907904 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^7 a^6 b^7 d^7 - 179381993472 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^7 a^7 b^6 d^7 - 16307453952 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^7 a^8 b^5 d^7 + 179381993472 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^7 a^9 b^4 d^7 + 48922361856 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^7 a^{10} b^3 d^7 - 1912602624 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k) a^2 b^5 d - 100663296 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k) a^3 b^4 d + 738197504 a b^5 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) + 268435456 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^2 a b^7 d^2 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) - 29158801408 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^2 a^2 b^6 d^2 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) - 29125246976 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^2 a^3 b^5 d^2 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) - 2113929216 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^2 a^4 b^4 d^2 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) - 4831838208 \text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)^4 a^3 b^7 d^4 \exp(dx) \exp(\text{root}(729 a^6 b^2 d^6 z^6 - 729 a^8 d^6 z^6 - 243 a^4 b^2 d^4 z^4 + 27 a^2 b^2 d^2 z^2 - b^2, z, k)) + 165490458624 \text{root}(72
\end{aligned}$$

$$\begin{aligned}
& 9a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k)^4 a^4 b^6 d^4 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) + 2838 \\
& 70494720 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^4 a^5 b^5 d^4 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) + 132573560832 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^4 a^6 b^4 d^4 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) + 2717908992 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^4 a^7 b^3 d^4 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) + 21743271936 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^6 a^5 b^7 d^6 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) - 154920812544 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^6 a^6 b^6 d^6 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) - 279944626176 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^6 a^7 b^5 d^6 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) - 105998450688 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^6 a^8 b^4 d^6 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) - 2717908992 \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k})^6 a^9 b^3 d^6 \exp(dx) \exp(\sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}) / (13ab^{12} + 13a^{12}b + a^{13} + b^{13} + 78a^2b^{11} + 286a^3b^{10} + 715a^4b^9 + 1287a^5b^8 + 1716a^6b^7 + 1716a^7b^6 + 1287a^8b^5 + 715a^9b^4 + 286a^{10}b^3 + 78a^{11}b^2) \sqrt{729a^6b^2d^6z^6 - 729a^8d^6z^6 - 243a^4b^2d^4z^4 + 27a^2b^2d^2z^2 - b^2, z, k}, k, 1, 6) + \log(\exp(dx + 1/(a*d)) - 1)/(a*d) - \log(\exp(dx - 1/(a*d)) + 1)/(a*d)
\end{aligned}$$

Integral number [79]

$$\int \frac{\operatorname{csch}^3(c + dx)}{a + b \tanh^3(c + dx)} dx$$

$$\begin{aligned}
& 7a^4b^2d^2z^2 + a^2b^2 - b^4, z, k) a^5b^6d + 754974720 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k) a^6b^5d + 25165824 \\
& \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k) a^7b^4d - 25165824 a b^9 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 234881024 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^3b^9d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 2592079872 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^4b^8d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 2860515328 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^5b^7d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 2919235584 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^6b^6d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 2357198848 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^7b^5d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 528482304 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^2 a^8b^4d^2 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 301989888 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^6b^8d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 9965666304 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^7b^7d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 33671872512 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^8b^6d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 6568280064 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^9b^5d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 29293019136 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^{10}b^4d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 679477248 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^4 a^{11}b^3d^4 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 72024588288 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^6 a^{10}b^6d^6 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& + 27179089920 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^6 a^{11}b^5d^6 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) \\
& - 96485769216 \operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^6 a^{12}b^4d^6 \exp(dx) \exp(\operatorname{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) -
\end{aligned}$$

$$2717908992 \cdot \text{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)^6 a^{13}b^3d^6 \exp(dx) \exp(\text{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k)) / (12a^{16}b + a^{17} + a^5b^{12} + 12a^6b^{11} + 66a^7b^{10} + 220a^8b^9 + 495a^9b^8 + 792a^{10}b^7 + 924a^{11}b^6 + 792a^{12}b^5 + 495a^{13}b^4 + 220a^{14}b^3 + 66a^{15}b^2) \cdot \text{root}(729a^{10}d^6z^6 + 27a^4b^2d^2z^2 + a^2b^2 - b^4, z, k), k, 1, 6) - \log(33554432ab^9 - 16777216b^{10} + 113246208a^2b^8 - 260046848a^3b^7 + 321126400a^4b^6 - 382205952a^5b^5 + 191102976a^6b^4 + 16777216b^{10} \exp(-1/(2ad)) \exp(dx) - 33554432ab^9 \exp(-1/(2ad)) \exp(dx) - 113246208a^2b^8 \exp(-1/(2ad)) \exp(dx) + 260046848a^3b^7 \exp(-1/(2ad)) \exp(dx) - 321126400a^4b^6 \exp(-1/(2ad)) \exp(dx) + 382205952a^5b^5 \exp(-1/(2ad)) \exp(dx) - 191102976a^6b^4 \exp(-1/(2ad)) \exp(dx)) / (2ad) + \log(33554432ab^9 - 16777216b^{10} + 113246208a^2b^8 - 260046848a^3b^7 + 321126400a^4b^6 - 382205952a^5b^5 + 191102976a^6b^4 - 16777216b^{10} \exp(1/(2ad)) \exp(dx) + 33554432ab^9 \exp(1/(2ad)) \exp(dx) + 113246208a^2b^8 \exp(1/(2ad)) \exp(dx) - 260046848a^3b^7 \exp(1/(2ad)) \exp(dx) + 321126400a^4b^6 \exp(1/(2ad)) \exp(dx) - 382205952a^5b^5 \exp(1/(2ad)) \exp(dx) + 191102976a^6b^4 \exp(1/(2ad)) \exp(dx)) / (2ad)$$

4.11 Test file Number [328]

Mathematica

Integral number [192]

$$\int x^3 \sqrt[3]{1 + c^2 x^2} (a + b \operatorname{arcsinh}(cx)) dx$$

[B] time = 0.188295 (sec), size = 119 ,normalized size = 4.76

$$\frac{3\sqrt[3]{1 + c^2 x^2} (3bcx(11 - 16c^2 x^2) \sqrt{1 + c^2 x^2} + 56a(-3 + c^2 x^2 + 4c^4 x^4) + 56b(-3 + c^2 x^2 + 4c^4 x^4) \operatorname{arcsinh}(cx))}{3136c^4}$$

[In] Integrate[x^3*(1 + c^2*x^2)^(1/3)*(a + b*ArcSinh[c*x]),x]

[Out]

$$(3*(1 + c^2*x^2)^(1/3)*(3*b*c*x*(11 - 16*c^2*x^2)*\text{Sqrt}[1 + c^2*x^2] + 56*a*(-3 + c^2*x^2 + 4*c^4*x^4) + 56*b*(-3 + c^2*x^2 + 4*c^4*x^4)*\text{ArcSinh}[c*x])$$

$$+ 405*b*c*x*Hypergeometric2F1[1/6, 1/2, 3/2, -(c^2*x^2)]/(3136*c^4)$$

Integral number [193]

$$\int x^2 \sqrt[3]{1 + c^2 x^2} (a + b \operatorname{arcsinh}(cx)) dx$$

[B] time = 4.74264 (sec), size = 198 ,normalized size = 7.92

$$3 \left(-440acx \operatorname{Hypergeometric2F1} \left(\frac{1}{2}, \frac{2}{3}, \frac{3}{2}, -c^2 x^2 \right) + \sqrt[3]{1 + c^2 x^2} (440acx + 1100ac^3 x^3 + 171b\sqrt{1 + c^2 x^2} + 220b^2 c x) \right)$$

[In] Integrate[x^2*(1 + c^2*x^2)^(1/3)*(a + b*ArcSinh[c*x]),x]

[Out]

$$(3*(-440*a*c*x*Hypergeometric2F1[1/2, 2/3, 3/2, -(c^2*x^2)] + (1 + c^2*x^2)^{(1/3)}*(440*a*c*x + 1100*a*c^3*x^3 + 171*b*Sqrt[1 + c^2*x^2] + 220*b*c*x*(2 + 5*c^2*x^2)*ArcSinh[c*x] - 75*b*Cosh[3*ArcSinh[c*x]] + 660*b*c*x*ArcSinh[c*x]*Hypergeometric2F1[5/6, 1, 4/3, 1 + c^2*x^2]) - (110*2^{(1/3)}*b*Sqrt[Pi]*(1 + c^2*x^2)^{(5/6)}*Gamma[2/3]*HypergeometricPFQ[{5/6, 5/6, 1}, {4/3, 11/6}, 1 + c^2*x^2])/(Gamma[4/3]*Gamma[11/6])))/(12100*c^3)$$

Integral number [194]

$$\int x \sqrt[3]{1 + c^2 x^2} (a + b \operatorname{arcsinh}(cx)) dx$$

[B] time = 0.169411 (sec), size = 92 ,normalized size = 4.

$$3 \left(\sqrt[3]{1 + c^2 x^2} (8a + 8ac^2 x^2 - 3bcx\sqrt{1 + c^2 x^2} + 8(b + bc^2 x^2) \operatorname{arcsinh}(cx)) - 5bcx \operatorname{Hypergeometric2F1} \left(\frac{1}{6}, \frac{1}{2}, \frac{3}{2}, -c^2 x^2 \right) \right) / 64c^2$$

[In] Integrate[x*(1 + c^2*x^2)^(1/3)*(a + b*ArcSinh[c*x]),x]

[Out]

$$(3*((1 + c^2*x^2)^{(1/3)}*(8*a + 8*a*c^2*x^2 - 3*b*c*x*Sqrt[1 + c^2*x^2] + 8*(b + b*c^2*x^2)*ArcSinh[c*x]) - 5*b*c*x*Hypergeometric2F1[1/6, 1/2, 3/2, -c^2*x^2]) / 64c^2$$

$$c^2 x^2)])) / (64 c^2)$$

Integral number [196]

$$\int \frac{\sqrt[3]{1 + c^2 x^2} (a + b \operatorname{arcsinh}(cx))}{x^2} dx$$

[B] time = 5.52442 (sec), size = 211 ,normalized size = 8.44

$$\frac{1}{3} \left(-\frac{3a \sqrt[3]{1 + c^2 x^2}}{x} + 2ac^2 x \operatorname{Hypergeometric2F1} \left(\frac{1}{2}, \frac{2}{3}, \frac{3}{2}, -c^2 x^2 \right) + bc \sqrt[3]{1 + c^2 x^2} \left(-\frac{9 \sqrt[6]{1 + \frac{1}{c^2 x^2}} \operatorname{Hypergeometric2F1} \left(\frac{1}{2}, \frac{2}{3}, \frac{3}{2}, -c^2 x^2 \right)}{\sqrt[3]{1 + c^2 x^2}} \right) \right)$$

[In] Integrate[((1 + c^2*x^2)^(1/3)*(a + b*ArcSinh[c*x]))/x^2,x]

[Out]

((-3*a*(1 + c^2*x^2)^(1/3))/x + 2*a*c^2*x*Hypergeometric2F1[1/2, 2/3, 3/2, -(c^2*x^2)] + b*c*(1 + c^2*x^2)^(1/3)*((-9*(1 + 1/(c^2*x^2))^(1/6)*Hypergeometric2F1[1/6, 1/6, 7/6, -(1/(c^2*x^2))])/Sqrt[1 + c^2*x^2] - (3*ArcSinh[c*x]*(1 + c^2*x^2*Hypergeometric2F1[5/6, 1, 4/3, 1 + c^2*x^2]))/(c*x) + (Sqrt[Pi + c^2*Pi*x^2]*Gamma[2/3]*HypergeometricPFQ[{5/6, 5/6, 1}, {4/3, 11/6}, 1 + c^2*x^2])/(2^(2/3)*Gamma[4/3]*Gamma[11/6])))/3

4.12 Test file Number [352]

Fricas

Integral number [13]

$$\int \frac{\operatorname{ExpIntegralEi}(bx)^2}{x^2} dx$$

[C] time = 0.08658 (sec), size = 43 ,normalized size = 4.3

$$\frac{4bx \operatorname{Ei}(2bx) + (bx - 1) \operatorname{Ei}(bx)^2 - 2 \operatorname{Ei}(bx) e^{(bx)} - 2 e^{(2bx)}}{x}$$

[In] integrate(Ei(b*x)^2/x^2,x, algorithm=""fricas"")

[Out]

$(4*b*x*Ei(2*b*x) + (b*x - 1)*Ei(b*x)^2 - 2*Ei(b*x)*e^{(b*x)} - 2*e^{(2*b*x)})/x$

Mupad

Integral number [72]

$$\int \frac{\text{LogIntegral}(a + bx)}{x} dx$$

[B] time = 0.050892 (sec), size = -1 ,normalized size = -0.1

$$\int \frac{\text{logint}(a + bx)}{x} dx$$

[In] int(logint(a + b*x)/x,x)

[Out]

int(logint(a + b*x)/x, x)

Integral number [73]

$$\int \frac{\text{LogIntegral}(a + bx)}{x^2} dx$$

[B] time = 0.105244 (sec), size = -1 ,normalized size = -0.1

$$\int \frac{\text{logint}(a + bx)}{x^2} dx$$

[In] int(logint(a + b*x)/x^2,x)

[Out]

int(logint(a + b*x)/x^2, x)

Integral number [74]

$$\int (dx)^m \text{LogIntegral}(a + bx) dx$$

[B] time = 0.052046 (sec), size = -1 ,normalized size = -0.08

$$\int \text{logint}(a + bx) (dx)^m dx$$

[In] `int(logint(a + b*x)*(d*x)^m,x)`

[Out]

`int(logint(a + b*x)*(d*x)^m, x)`

4.13 Test file Number [353]

Mathematica

Integral number [115]

$$\int \frac{\cos(bx) \text{CosIntegral}(bx)}{x^2} dx$$

[A] time = 0.0272549 (sec), size = 13 ,normalized size = 1.08

$$\frac{\cos(bx) \text{CosIntegral}(bx)}{x}$$

[In] `Integrate[(Cos[b*x]*CosIntegral[b*x])/x^2,x]`

[Out]

`-((Cos[b*x]*CosIntegral[b*x])/x)`

Fricas

Integral number [16]

$$\int \frac{\text{Si}(bx)^2}{x^3} dx$$

[C] time = 0.090594 (sec), size = 74 ,normalized size = 7.4

$$\frac{4b^2x^2 \text{Ci}(2bx) - 2bx \cos(bx) \text{Si}(bx) - (b^2x^2 + 2) \text{Si}(bx)^2 + \cos(bx)^2 - 2(2bx \cos(bx) + \text{Si}(bx)) \sin(bx)}{4x^2}$$

[In] integrate(sin_integral(b*x)^2/x^3,x, algorithm="fricas")

[Out]

```
1/4*(4*b^2*x^2*cos_integral(2*b*x) - 2*b*x*cos(b*x)*sin_integral(b*x) - (b^
2*x^2 + 2)*sin_integral(b*x)^2 + cos(b*x)^2 - 2*(2*b*x*cos(b*x) + sin_integ
ral(b*x))*sin(b*x) - 1)/x^2
```

4.14 Test file Number [355]**Mupad**

Integral number [106]

$$\int \frac{\Gamma(0, a + bx)}{c + dx} dx$$

[B] time = 0.079764 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\text{expint}(a + bx)}{c + dx} dx$$

[In] int(expint(a + b*x)/(c + d*x),x)

[Out]

int(expint(a + b*x)/(c + d*x), x)

Integral number [141]

$$\int \frac{\Gamma(-1, a + bx)}{c + dx} dx$$

[B] time = 0.266603 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\text{expint}(2, a + bx)}{(a + bx)(c + dx)} dx$$

[In] int(expint(2, a + b*x)/((a + b*x)*(c + d*x)), x)

[Out]

int(expint(2, a + b*x)/((a + b*x)*(c + d*x)), x)

Integral number [149]

$$\int \frac{\Gamma(-2, a + bx)}{c + dx} dx$$

[B] time = 3.72133 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\text{expint}(3, a + bx)}{(a + bx)^2 (c + dx)} dx$$

[In] int(expint(3, a + b*x)/((a + b*x)^2*(c + d*x)), x)

[Out]

int(expint(3, a + b*x)/((a + b*x)^2*(c + d*x)), x)

Integral number [157]

$$\int \frac{\Gamma(-3, a + bx)}{c + dx} dx$$

[B] time = 0.251477 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\text{expint}(4, a + bx)}{(a + bx)^3 (c + dx)} dx$$

[In] `int(expint(4, a + b*x)/((a + b*x)^3*(c + d*x)),x)`

[Out]

`int(expint(4, a + b*x)/((a + b*x)^3*(c + d*x)), x)`

Integral number [169]

$$\int x^{3/2} \Gamma(-2, a + bx) dx$$

[B] time = 0.779192 (sec), size = -1 ,normalized size = -0.08

$$\int \frac{x^{3/2} \expint(3, a + bx)}{(a + bx)^2} dx$$

[In] `int((x^(3/2)*expint(3, a + b*x))/(a + b*x)^2,x)`

[Out]

`int((x^(3/2)*expint(3, a + b*x))/(a + b*x)^2, x)`

Integral number [170]

$$\int \sqrt{x} \Gamma(-2, a + bx) dx$$

[B] time = 0.756775 (sec), size = -1 ,normalized size = -0.08

$$\int \frac{\sqrt{x} \expint(3, a + bx)}{(a + bx)^2} dx$$

[In] `int((x^(1/2)*expint(3, a + b*x))/(a + b*x)^2,x)`

[Out]

`int((x^(1/2)*expint(3, a + b*x))/(a + b*x)^2, x)`

Integral number [171]

$$\int \frac{\Gamma(-2, a + bx)}{\sqrt{x}} dx$$

[B] time = 12.6427 (sec), size = -1 ,normalized size = -0.08

$$\int \frac{\text{expint}(3, a + bx)}{\sqrt{x} (a + bx)^2} dx$$

[In] int(expint(3, a + b*x)/(x^(1/2)*(a + b*x)^2), x)

[Out]

int(expint(3, a + b*x)/(x^(1/2)*(a + b*x)^2), x)

Integral number [172]

$$\int \frac{\Gamma(-2, a + bx)}{x^{3/2}} dx$$

[B] time = 12.5016 (sec), size = -1 ,normalized size = -0.08

$$\int \frac{\text{expint}(3, a + bx)}{x^{3/2} (a + bx)^2} dx$$

[In] int(expint(3, a + b*x)/(x^(3/2)*(a + b*x)^2), x)

[Out]

int(expint(3, a + b*x)/(x^(3/2)*(a + b*x)^2), x)

Integral number [182]

$$\int (c + dx)^m \Gamma(0, a + bx) dx$$

[B] time = 0.127615 (sec), size = -1 ,normalized size = -0.07

$$\int \text{expint}(a + bx) (c + dx)^m dx$$

[In] int(expint(a + b*x)*(c + d*x)^m, x)

[Out]

```
int(expint(a + b*x)*(c + d*x)^m, x)
```

Integral number [183]

$$\int (c + dx)^m \Gamma(-1, a + bx) dx$$

[B] time = 0.300477 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\expint(2, a + bx) (c + dx)^m}{a + bx} dx$$

```
[In] int((expint(2, a + b*x)*(c + d*x)^m)/(a + b*x), x)
```

[Out]

```
int((expint(2, a + b*x)*(c + d*x)^m)/(a + b*x), x)
```

Integral number [184]

$$\int (c + dx)^m \Gamma(-2, a + bx) dx$$

[B] time = 0.34162 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\expint(3, a + bx) (c + dx)^m}{(a + bx)^2} dx$$

```
[In] int((expint(3, a + b*x)*(c + d*x)^m)/(a + b*x)^2, x)
```

[Out]

```
int((expint(3, a + b*x)*(c + d*x)^m)/(a + b*x)^2, x)
```

Integral number [185]

$$\int (c + dx)^m \Gamma(-3, a + bx) dx$$

[B] time = 0.267222 (sec), size = -1 ,normalized size = -0.07

$$\int \frac{\expint(4, a + bx) (c + dx)^m}{(a + bx)^3} dx$$

[In] `int((expint(4, a + b*x)*(c + d*x)^m)/(a + b*x)^3, x)`

[Out]

`int((expint(4, a + b*x)*(c + d*x)^m)/(a + b*x)^3, x)`

CHAPTER 5

APPENDIX

5.1 Listing of grading functions 9779

5.1 Listing of grading functions

The following are the current version of the grading functions used for grading the quality of the antiderivative with reference to the optimal antiderivative included in the test suite.

There is a version for Maple and for Mathematica/Rubi. There is a version for grading Sympy and version for use with Sagemath.

The following are links to the current source code.

1. Mathematica and Rubi grading function `GradeAntiderivative.m`
2. Maple grading function `GradeAntiderivative.mpl`
3. Sympy grading function `grade_sympy.py`
4. Sagemath grading function `grade_sagemath.py`

The following are the listings of source code of the grading functions.

Mathematica and Rubi grading function

```
(* Original version thanks to Albert Rich emailed on 03/21/2017 *)
(* ::Package:: *)

(* Nasser: April 7, 2022. add second output which gives reason for the grade *)
(*           Small rewrite of logic in main function to make it*)
(*           match Maple's logic. No change in functionality otherwise*)

(* ::Subsection:: *)
(*GradeAntiderivative[result,optimal]*)

(* ::Text:: *)
(*If result and optimal are mathematical expressions, *)
(*           GradeAntiderivative[result,optimal] returns*)
(* "F" if the result fails to integrate an expression that*)
(*     is integrable*)
(* "C" if result involves higher level functions than necessary*)
(* "B" if result is more than twice the size of the optimal*)
(*     antiderivative*)
(* "A" if result can be considered optimal*)
```

```

GradeAntiderivative[result_,optimal_] := Module[{expnResult,expnOptimal,leafCountResult,leaf
  expnResult = ExpnType[result];
  expnOptimal = ExpnType[optimal];
  leafCountResult = LeafCount[result];
  leafCountOptimal = LeafCount[optimal];

  (*Print["expnResult=",expnResult," expnOptimal=",expnOptimal];*)
  If[expnResult<=expnOptimal,
    If[Not[FreeQ[result,Complex]], (*result contains complex*)
      If[Not[FreeQ[optimal,Complex]], (*optimal contains complex*)
        If[leafCountResult<=2*leafCountOptimal,
          finalresult={"A",""}
          ,(*ELSE*)
          finalresult={"B","Both result and optimal contain complex but leaf count
        ]
        ,(*ELSE*)
        finalresult={"C","Result contains complex when optimal does not."}
      ]
      ,(*ELSE*)(*result does not contains complex*)
      If[leafCountResult<=2*leafCountOptimal,
        finalresult={"A",""}
        ,(*ELSE*)
        finalresult={"B","Leaf count is larger than twice the leaf count of optimal.
      ]
    ]
    ,(*ELSE*)(*expnResult>expnOptimal*)
    If[FreeQ[result,Integrate] && FreeQ[result,Int],
      finalresult={"C","Result contains higher order function than in optimal. Order "
      ,
      finalresult={"F","Contains unresolved integral."}
    ]
  ];

  finalresult
]

(* ::Text:: *)
(*The following summarizes the type number assigned an *)
(*expression based on the functions it involves*)

```

```
(*1 = rational function*)
(*2 = algebraic function*)
(*3 = elementary function*)
(*4 = special function*)
(*5 = hyperpergeometric function*)
(*6 = appell function*)
(*7 = rootsum function*)
(*8 = integrate function*)
(*9 = unknown function*)

ExpnType[expn_] :=
  If[AtomQ[expn],
    1,
    If[ListQ[expn],
      Max[Map[ExpnType, expn]],
      If[Head[expn]===Power,
        If[IntegerQ[expn[[2]]],
          ExpnType[expn[[1]]],
          If[Head[expn[[2]]]===Rational,
            If[IntegerQ[expn[[1]]] || Head[expn[[1]]]===Rational,
              1,
              Max[ExpnType[expn[[1]], 2]],
            Max[ExpnType[expn[[1]], ExpnType[expn[[2]], 3]],
          If[Head[expn]===Plus || Head[expn]===Times,
            Max[ExpnType[First[expn]], ExpnType[Rest[expn]]],
          If[ElementaryFunctionQ[Head[expn]],
            Max[3, ExpnType[expn[[1]]],
          If[SpecialFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 4]],
          If[HypergeometricFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 5]],
          If[AppellFunctionQ[Head[expn]],
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 6]],
          If[Head[expn]===RootSum,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 7]],
          If[Head[expn]===Integrate || Head[expn]===Int,
            Apply[Max, Append[Map[ExpnType, Apply[List, expn]], 8]],
          9]]]]]]]]]]
```

```

ElementaryFunctionQ[func_] :=
  MemberQ[{
    Exp, Log,
    Sin, Cos, Tan, Cot, Sec, Csc,
    ArcSin, ArcCos, ArcTan, ArcCot, ArcSec, ArcCsc,
    Sinh, Cosh, Tanh, Coth, Sech, Csch,
    ArcSinh, ArcCosh, ArcTanh, ArcCoth, ArcSech, ArcCsch
  }, func]

SpecialFunctionQ[func_] :=
  MemberQ[{
    Erf, Erfc, Erfi,
    FresnelS, FresnelC,
    ExpIntegralE, ExpIntegralEi, LogIntegral,
    SinIntegral, CosIntegral, SinhIntegral, CoshIntegral,
    Gamma, LogGamma, PolyGamma,
    Zeta, PolyLog, ProductLog,
    EllipticF, EllipticE, EllipticPi
  }, func]

HypergeometricFunctionQ[func_] :=
  MemberQ[{Hypergeometric1F1, Hypergeometric2F1, HypergeometricPFQ}, func]

AppellFunctionQ[func_] :=
  MemberQ[{AppellF1}, func]

```

Maple grading function

```

# File: GradeAntiderivative.mpl
# Original version thanks to Albert Rich emailed on 03/21/2017

#Nasser 03/22/2017 Use Maple leaf count instead since buildin
#Nasser 03/23/2017 missing 'ln' for ElementaryFunctionQ added
#Nasser 03/24/2017 corrected the check for complex result
#Nasser 10/27/2017 check for leafsize and do not call ExpnType()
#
# if leaf size is "too large". Set at 500,000
#Nasser 12/22/2019 Added debug flag, added 'dilog' to special functions

```

```
# see problem 156, file Apostol_Problems
#Nasser 4/07/2022 add second output which gives reason for the grade

GradeAntiderivative := proc(result,optimal)
local leaf_count_result,
      leaf_count_optimal,
      ExpnType_result,
      ExpnType_optimal,
      debug:=false;

      leaf_count_result:=leafcount(result);
      #do NOT call ExpnType() if leaf size is too large. Recursion problem
      if leaf_count_result > 500000 then
          return "B","result has leaf size over 500,000. Avoiding possible recursion issue";
      fi;

      leaf_count_optimal := leafcount(optimal);
      ExpnType_result := ExpnType(result);
      ExpnType_optimal := ExpnType(optimal);

      if debug then
          print("ExpnType_result",ExpnType_result," ExpnType_optimal=",ExpnType_optimal);
      fi;

# If result and optimal are mathematical expressions,
# GradeAntiderivative[result,optimal] returns
# "F" if the result fails to integrate an expression that
# is integrable
# "C" if result involves higher level functions than necessary
# "B" if result is more than twice the size of the optimal
# antiderivative
# "A" if result can be considered optimal

#This check below actually is not needed, since I only
#call this grading only for passed integrals. i.e. I check
#for "F" before calling this. But no harm of keeping it here.
#just in case.

if not type(result,freeof('int')) then
    return "F","Result contains unresolved integral";
```

```

fi;

if ExpnType_result<=ExpnType_optimal then
  if debug then
    print("ExpnType_result<=ExpnType_optimal");
  fi;
  if is_contains_complex(result) then
    if is_contains_complex(optimal) then
      if debug then
        print("both result and optimal complex");
      fi;
      if leaf_count_result<=2*leaf_count_optimal then
        return "A"," ";
      else
        return "B",cat("Both result and optimal contain complex but leaf count of
                        convert(leaf_count_result,string)," vs. $2 (" ,
                        convert(leaf_count_optimal,string)," ) = ",convert(2*leaf
    end if
  else #result contains complex but optimal is not
    if debug then
      print("result contains complex but optimal is not");
    fi;
    return "C","Result contains complex when optimal does not.";
  fi;
else # result do not contain complex
  # this assumes optimal do not as well. No check is needed here.
  if debug then
    print("result do not contain complex, this assumes optimal do not as well
  fi;
  if leaf_count_result<=2*leaf_count_optimal then
    if debug then
      print("leaf_count_result<=2*leaf_count_optimal");
    fi;
    return "A"," ";
  else
    if debug then
      print("leaf_count_result>2*leaf_count_optimal");
    fi;
    return "B",cat("Leaf count of result is larger than twice the leaf count of
                    convert(leaf_count_result,string)," $ vs. $2(",

```



```

                                convert(leaf_count_optimal,string),"="),convert(2*leaf_co
        fi;
    fi;
else #ExpnType(result) > ExpnType(optimal)
    if debug then
        print("ExpnType(result) > ExpnType(optimal)");
    fi;
    return "C",cat("Result contains higher order function than in optimal. Order ",
        convert(ExpnType_result,string)," vs. order ",
        convert(ExpnType_optimal,string),".");
fi;

end proc:

#
# is_contains_complex(result)
# takes expressions and returns true if it contains "I" else false
#
#Nasser 032417
is_contains_complex:= proc(expression)
    return (has(expression,I));
end proc:

# The following summarizes the type number assigned an expression
# based on the functions it involves
# 1 = rational function
# 2 = algebraic function
# 3 = elementary function
# 4 = special function
# 5 = hyperpergeometric function
# 6 = appell function
# 7 = rootsum function
# 8 = integrate function
# 9 = unknown function

ExpnType := proc(expn)
    if type(expn,'atomic') then
        1
    elif type(expn,'list') then
        apply(max,map(ExpnType,expn))
    elif type(expn,'sqrt') then

```

```

    if type(op(1,expn),'rational') then
      1
    else
      max(2,ExpnType(op(1,expn)))
    end if
  elif type(expn,'^^') then
    if type(op(2,expn),'integer') then
      ExpnType(op(1,expn))
    elif type(op(2,expn),'rational') then
      if type(op(1,expn),'rational') then
        1
      else
        max(2,ExpnType(op(1,expn)))
      end if
    else
      max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    end if
  elif type(expn,'+`') or type(expn,'*`') then
    max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
  elif ElementaryFunctionQ(op(0,expn)) then
    max(3,ExpnType(op(1,expn)))
  elif SpecialFunctionQ(op(0,expn)) then
    max(4,apply(max,map(ExpnType,[op(expn)])))
  elif HypergeometricFunctionQ(op(0,expn)) then
    max(5,apply(max,map(ExpnType,[op(expn)])))
  elif AppellFunctionQ(op(0,expn)) then
    max(6,apply(max,map(ExpnType,[op(expn)])))
  elif op(0,expn)='int' then
    max(8,apply(max,map(ExpnType,[op(expn)]))) else
  9
  end if
end proc:

```

```

ElementaryFunctionQ := proc(func)
  member(func,[
    exp,log,ln,
    sin,cos,tan,cot,sec,csc,
    arcsin,arccos,arctan,arccot,arcsec,arccsc,
    sinh,cosh,tanh,coth,sech,csch,
    arcsinh,arccosh,arctanh,arccoth,arcsech,arccsch])

```

```
end proc:

SpecialFunctionQ := proc(func)
  member(func, [
    erf,erfc,erfi,
    FresnelS,FresnelC,
    Ei,Ei,Li,Si,Ci,Shi,Chi,
    GAMMA,lnGAMMA,Psi,Zeta,polylog,dilog,LambertW,
    EllipticF,EllipticE,EllipticPi])
end proc:

HypergeometricFunctionQ := proc(func)
  member(func, [Hypergeometric1F1,hypergeom,HypergeometricPFQ])
end proc:

AppellFunctionQ := proc(func)
  member(func, [AppellF1])
end proc:

# u is a sum or product. rest(u) returns all but the
# first term or factor of u.
rest := proc(u) local v;
  if nops(u)=2 then
    op(2,u)
  else
    apply(op(0,u),op(2..nops(u),u))
  end if
end proc:

#leafcount(u) returns the number of nodes in u.
#Nasser 3/23/17 Replaced by build-in leafCount from package in Maple
leafcount := proc(u)
  MmaTranslator[Mma][LeafCount](u);
end proc:
```

Sympy grading function

```

#Dec 24, 2019. Nasser M. Abbasi:
#      Port of original Maple grading function by
#      Albert Rich to use with Sympy/Python
#Dec 27, 2019 Nasser. Added `RootSum`. See problem 177, Timofeev file
#      added 'exp_polar'
from sympy import *

def leaf_count(expr):
    #sympy do not have leaf count function. This is approximation
    return round(1.7*count_ops(expr))

def is_sqrt(expr):
    if isinstance(expr,Pow):
        if expr.args[1] == Rational(1,2):
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    return func in [exp,log,ln,sin,cos,tan,cot,sec,csc,
                    asin,acos,atan,acot,asec,acsc,sinh,cosh,tanh,coth,sech,csch,
                    asinh,acosh,atanh,acoth,asech,acsch
                    ]

def is_special_function(func):
    return func in [ erf,erfc,erfi,
                    fresnels,fresnelc,Ei,Ei,Li,Si,Ci,Shi,Chi,
                    gamma,loggamma,digamma,zeta,polylog,LambertW,
                    elliptic_f,elliptic_e,elliptic_pi,exp_polar
                    ]

def is_hypergeometric_function(func):
    return func in [hyper]

def is_appell_function(func):
    return func in [appellf1]

```

```

def is_atom(expn):
    try:
        if expn.isAtom or isinstance(expn,int) or isinstance(expn,float):
            return True
        else:
            return False

    except AttributeError as error:
        return False

def expnType(expn):
    debug=False
    if debug:
        print("expn=",expn,"type(expn)=",type(expn))

    if is_atom(expn):
        return 1
    elif isinstance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
            return 1
        else:
            return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
    elif isinstance(expn,Pow): #type(expn,'^')
        if isinstance(expn.args[1],Integer): #type(op(2,expn),'integer')
            return expnType(expn.args[0]) #ExpnType(op(1,expn))
        elif isinstance(expn.args[1],Rational): #type(op(2,expn),'rational')
            if isinstance(expn.args[0],Rational): #type(op(1,expn),'rational')
                return 1
            else:
                return max(2,expnType(expn.args[0])) #max(2,ExpnType(op(1,expn)))
        else:
            return max(3,expnType(expn.args[0]),expnType(expn.args[1])) #max(3,ExpnType(op(1,expn)),ExpnType(op(2,expn)))
    elif isinstance(expn,Add) or isinstance(expn,Mul): #type(expn,'+') or type(expn,'*')
        m1 = expnType(expn.args[0])
        m2 = expnType(list(expn.args[1:]))
        return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
    elif is_elementary_function(expn.func): #ElementaryFunctionQ(op(0,expn))
        return max(3,expnType(expn.args[0])) #max(3,ExpnType(op(1,expn)))
    elif is_special_function(expn.func): #SpecialFunctionQ(op(0,expn))

```

```

    m1 = max(map(expnType, list(expn.args)))
    return max(4,m1) #max(4,apply(max,map(ExpnType,[op(expn)])))
elif is_hypergeometric_function(expn.func): #HypergeometricFunctionQ(op(0,expn))
    m1 = max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif is_appell_function(expn.func):
    m1 = max(map(expnType, list(expn.args)))
    return max(6,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
elif isinstance(expn,RootSum):
    m1 = max(map(expnType, list(expn.args))) #Apply[Max,Append[Map[ExpnType,Apply[List,expn]],7]],
    return max(7,m1)
elif str(expn).find("Integral") != -1:
    m1 = max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

#main function
def grade_antiderivative(result,optimal):

    #print ("Enter grade_antiderivative for sagemath")
    #print("Enter grade_antiderivative, result=",result," optimal=",optimal)

    leaf_count_result = leaf_count(result)
    leaf_count_optimal = leaf_count(optimal)

    #print("leaf_count_result=",leaf_count_result)
    #print("leaf_count_optimal=",leaf_count_optimal)

    expnType_result = expnType(result)
    expnType_optimal = expnType(optimal)

    if str(result).find("Integral") != -1:
        grade = "F"
        grade_annotation = ""
    else:
        if expnType_result <= expnType_optimal:
            if result.has(I):
                if optimal.has(I): #both result and optimal complex
                    if leaf_count_result <= 2*leaf_count_optimal:
                        grade = "A"

```

```

        grade_annotation = ""
    else:
        grade = "B"
        grade_annotation = "Both result and optimal contain complex but leaf count of result is larger than twice the leaf count of optimal."
    else: #result contains complex but optimal is not
        grade = "C"
        grade_annotation = "Result contains complex when optimal does not."
    else: # result do not contain complex, this assumes optimal do not as well
        if leaf_count_result <= 2*leaf_count_optimal:
            grade = "A"
            grade_annotation = ""
        else:
            grade = "B"
            grade_annotation = "Leaf count of result is larger than twice the leaf count of optimal. "+str(leaf_count_result/leaf_count_optimal)
    else:
        grade = "C"
        grade_annotation = "Result contains higher order function than in optimal. Order "+str(ExpnType(result).order()-ExpnType(optimal).order())

    #print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

    return grade, grade_annotation

```

SageMath grading function

```

#Dec 24, 2019. Nasser: Ported original Maple grading function by
# Albert Rich to use with Sagemath. This is used to
# grade Fricas, Giac and Maxima results.
#Dec 24, 2019. Nasser: Added 'exp_integral_e' and 'sng', 'sin_integral'
# 'arctan2', 'floor', 'abs', 'log_integral'
#June 4, 2022 Made default grade_annotation "none" instead of "" due
# issue later when reading the file.
#July 14, 2022. Added ellipticF. This is until they fix sagemath, then remove it.

from sage.all import *
from sage.symbolic.operators import add_vararg, mul_vararg

debug=False;

def tree_size(expr):

```

```

r"""
Return the tree size of this expression.
"""

#print("Enter tree_size, expr is ",expr)

if expr not in SR:
    # deal with lists, tuples, vectors
    return 1 + sum(tree_size(a) for a in expr)
expr = SR(expr)
x, aa = expr.operator(), expr.operands()
if x is None:
    return 1
else:
    return 1 + sum(tree_size(a) for a in aa)

def is_sqrt(expr):
    if expr.operator() == operator.pow: #instance(expr,Pow):
        if expr.operands()[1]==1/2: #expr.args[1] == Rational(1,2):
            if debug: print ("expr is sqrt")
            return True
        else:
            return False
    else:
        return False

def is_elementary_function(func):
    #debug=False
    m = func.name() in ['exp','log','ln',
        'sin','cos','tan','cot','sec','csc',
        'arcsin','arccos','arctan','arccot','arcsec','arccsc',
        'sinh','cosh','tanh','coth','sech','csch',
        'arcsinh','arccosh','arctanh','arcoth','arcsech','arccsch','sgn',
        'arctan2','floor','abs'
    ]
    if debug:
        if m:
            print ("func ", func , " is elementary_function")
        else:
            print ("func ", func , " is NOT elementary_function")

```



```

return m

def is_special_function(func):
    #debug=False
    if debug:
        print ("type(func)=", type(func))

    m= func.name() in ['erf','erfc','erfi','fresnel_sin','fresnel_cos','Ei',
        'Ei','Li','Si','sin_integral','Ci','cos_integral','Shi','sinh_integral'
        'Chi','cosh_integral','gamma','log_gamma','psi','zeta',
        'polylog','lambert_w','elliptic_f','elliptic_e','ellipticF',
        'elliptic_pi','exp_integral_e','log_integral',
        'weierstrassPInverse','weierstrass','weierstrassP','weierstrassZeta',
        'weierstrassPPrime','weierstrassSigma']

    if debug:
        print ("m=",m)
        if m:
            print ("func ", func , " is special_function")
        else:
            print ("func ", func , " is NOT special_function")

    return m

def is_hypergeometric_function(func):
    return func.name() in ['hypergeometric','hypergeometric_M','hypergeometric_U']

def is_appell_function(func):
    return func.name() in ['hypergeometric']  #[appellf1] can't find this in sagemath

def is_atom(expn):

    #debug=False
    if debug:
        print ("Enter is_atom, expn=",expn)

    if not hasattr(expn, 'parent'):
        return False

```

#thanks to answer at <https://ask.sagemath.org/question/49179/what-is-sagemath-equivalent-to-atomic>

```

try:
    if expn.parent() is SR:
        return expn.operator() is None
    if expn.parent() in (ZZ, QQ, AA, QQbar):
        return expn in expn.parent() # Should always return True
    if hasattr(expn.parent(), "base_ring") and hasattr(expn.parent(), "gens"):
        return expn in expn.parent().base_ring() or expn in expn.parent().gens()

    return False

except AttributeError as error:
    print("Exception,AttributeError in is_atom")
    print("caught exception", type(error).__name__)
    return False

```

```
def expnType(expn):
```

```

    if debug:
        print(">>>>>Enter expnType, expn=", expn)
        print(">>>>>is_atom(expn)=", is_atom(expn))

    if is_atom(expn):
        return 1
    elif type(expn)==list: #instance(expn,list):
        return max(map(expnType, expn)) #apply(max,map(ExpnType,expn))
    elif is_sqrt(expn):
        if type(expn.operands()[0])==Rational: #type(instance(expn.args[0],Rational):
            return 1
        else:
            return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))
    elif expn.operator() == operator.pow: #instance(expn,Pow)
        if type(expn.operands()[1])==Integer: #instance(expn.args[1],Integer)
            return expnType(expn.operands()[0]) #expnType(expn.args[0])
        elif type(expn.operands()[1])==Rational: #instance(expn.args[1],Rational)
            if type(expn.operands()[0])==Rational: #instance(expn.args[0],Rational)
                return 1
            else:
                return max(2,expnType(expn.operands()[0])) #max(2,expnType(expn.args[0]))

```

```

else:
    return max(3,expnType(expn.operands()[0]),expnType(expn.operands()[1])) #max(3,expnType(expn
elif expn.operator() == add_vararg or expn.operator() == mul_vararg: #isinstance(expn,Add) or isins
    m1 = expnType(expn.operands()[0]) #expnType(expn.args[0])
    m2 = expnType(expn.operands()[1:]) #expnType(list(expn.args[1:]))
    return max(m1,m2) #max(ExpnType(op(1,expn)),max(ExpnType(rest(expn))))
elif is_elementary_function(expn.operator()): #is_elementary_function(expn.func)
    return max(3,expnType(expn.operands()[0]))
elif is_special_function(expn.operator()): #is_special_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(4,m1) #max(4,m1)
elif is_hypergeometric_function(expn.operator()): #is_hypergeometric_function(expn.func)
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(5,m1) #max(5,m1)
elif is_appell_function(expn.operator()):
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(6,m1) #max(6,m1)
elif str(expn).find("Integral") != -1: #this will never happen, since it
    #is checked before calling the grading function that is passed.
    #but kept it here.
    m1 = max(map(expnType, expn.operands())) #max(map(expnType, list(expn.args)))
    return max(8,m1) #max(5,apply(max,map(ExpnType,[op(expn)])))
else:
    return 9

```

#main function

```
def grade_antiderivative(result,optimal):
```

```
if debug:
```

```

print("Enter grade_antiderivative for sagemath")
print("Enter grade_antiderivative, result=",result)
print("Enter grade_antiderivative, optimal=",optimal)
print("type(anti)=",type(result))
print("type(optimal)=",type(optimal))

```

```
leaf_count_result = tree_size(result) #leaf_count(result)
```

```
leaf_count_optimal = tree_size(optimal) #leaf_count(optimal)
```

```
#if debug: print("leaf_count_result=", leaf_count_result, "leaf_count_optimal=",leaf_count_optimal)
```

```

expnType_result = expnType(result)
expnType_optimal = expnType(optimal)

if debug: print ("expnType_result=", expnType_result, "expnType_optimal=",expnType_optimal)

if expnType_result <= expnType_optimal:
    if result.has(I):
        if optimal.has(I): #both result and optimal complex
            if leaf_count_result <= 2*leaf_count_optimal:
                grade = "A"
                grade_annotation = "none"
            else:
                grade = "B"
                grade_annotation = "Both result and optimal contain complex but leaf count of result is larger"
        else: #result contains complex but optimal is not
            grade = "C"
            grade_annotation = "Result contains complex when optimal does not."
    else: # result do not contain complex, this assumes optimal do not as well
        if leaf_count_result <= 2*leaf_count_optimal:
            grade = "A"
            grade_annotation = "none"
        else:
            grade = "B"
            grade_annotation = "Leaf count of result is larger than twice the leaf count of optimal. "+str(leaf_count_result - 2*leaf_count_optimal)
else:
    grade = "C"
    grade_annotation = "Result contains higher order function than in optimal. Order "+str(expnType_result - expnType_optimal)

print("Before returning. grade=",grade, " grade_annotation=",grade_annotation)

return grade, grade_annotation

```